

TABLE 1181

## TABLE OF ISOTACHOPHORETIC INDICES

### I SIMULATED QUALITATIVE AND QUANTITATIVE INDICES OF 287 ANIONIC SUBSTANCES IN THE RANGE pH 3–10

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#### SUMMARY

A simulation of isotachophoretic equilibria has been applied to 287 anions, evaluating  $R_E$  indices for qualitative determination and time-based zone lengths for quantitation under 31 leading electrolyte conditions in the range pH 3–10, using eight different buffers. The  $R_E$  values may be useful for correcting asymmetric potentials of sensing electrodes for precise  $R_E$  measurement, assessing the separability of samples and estimating the optimum separation conditions. The zone lengths for 10-nmol samples obtained at a driving current of 100  $\mu$ A may be useful for quantitation.

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#### INTRODUCTION

A unique feature of capillary isotachophoretic apparatus commonly used is that there are no packing materials in the separation column. The isotachophoretic behaviour in such a free electrolyte system can be analyzed theoretically and the observed isotachopherograms can be simulated using a few physico-chemical constants of the sample components and appropriate separation conditions<sup>1,2</sup>. In previous papers we have described applications of this simulative technique to analytical problems such as the assessment of the separability of samples at different pH values<sup>2</sup>, estimation of the optimum separation conditions<sup>2</sup> and quantitation without a calibration line<sup>3</sup>. In principle, the separability of samples by isotachopheresis is determined by the effective mobilities of the sample components, which are closely related to their absolute mobilities and  $pK_a$  values and to the pH of the leading electrolyte,  $pH_L$ , buffered by an appropriate counter ion. To ensure that there is sufficient difference between the effective mobilities of the sample components, a complex-forming technique and a solvent effect are also utilized<sup>4</sup>.

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In the present work, the qualitative and quantitative indices of 287 anions are simulated under 31 aqueous electrolyte conditions in the range pH 3–10 by considering the pH dependence of the effective mobility. These indices, *i.e.*,  $R_E$  and the time-based zone length,  $t$ , can be used as a data base for analytical purposes and for correction of asymmetric potential in the measurement of  $R_E^5$ , qualitative identification without addition of a standard and conversion of  $R_E$  into other qualitative indices and *vice versa*

#### SIMULATION CONDITIONS

The pH of the leading electrolyte,  $pH_L$ , was varied in the range 3–10 (0.25 pH units per step) using eight kinds of buffer ions:  $\beta$ -alanine ( $pH_L = 3-4$ );  $\epsilon$ -aminocaproic acid (4.4–7.5); creatinine (4.75–5.25); histidine (5.5–6.25); imidazole (6.5–7.25); tris(hydroxymethyl)aminomethane (Tris) (7.5–8.25); 2-amino-2-methyl-1,3-propanediol (amediol) (8.5–9.25); ethanolamine (9.5–10). The absolute mobilities,  $m_0$ , and the dissociation constants,  $pK_a$ , of the buffers used are summarized in Table I. The absolute mobility of cationic  $\beta$ -alanine ( $36.7 \cdot 10^{-5} \text{ cm}^2 \text{ V}^{-1} \text{ sec}^{-1}$ ) obtained by conductivity measurement was different from the previously used value<sup>5</sup> of  $31.0 \cdot 10^{-5} \text{ cm}^2 \text{ V}^{-1} \text{ sec}^{-1}$  obtained by analysing the step height of anionic  $\beta$ -alanine and assuming the cationic  $m_0$  to be equal to that of the anionic  $m_0$ . The leading ion was 0.01 M chloride and the driving current was 100  $\mu\text{A}$ . Table II shows the simulation conditions, the simulated concentration of buffer, the effective mobility of the buffer and leading ion, the specific conductivity and the potential gradient of the leading zones. For simulation of the latter the inner diameter of the separation column was assumed to be 0.5 mm. The isotachophoretic zone velocity at each  $pH_L$  condition is also shown in Table II. This velocity can be used to estimate the time needed for detecting the first sample zone.

The  $m_0$  and  $pK_a$  values of the 287 substances are mainly literature values. For about 80 substances, isotachophoretically evaluated constants were used. It should be noted that the correction of  $m_0$  of  $\beta$ -alanine and revision of the computer program caused little changes in the  $m_0$  and  $pK_a$  values evaluated previously<sup>5</sup>. For a part of the samples, especially for isomers of benzene derivatives,  $pK_a$  could be found in the

TABLE I  
PHYSICO-CHEMICAL CONSTANTS OF BUFFERS USED IN SIMULATION (25°C)

$m_0$  = Absolute mobility ( $\text{cm}^2 \text{ V}^{-1} \text{ sec}^{-1} \times 10^5$ )  $pK_a$  = thermodynamic acid dissociation constant The absolute mobilities were obtained isotachophoretically, and the  $pK_a$  values were taken from the literature

$pH_L$ range	Buffer	$pK_a$	$m_0$
3.00–4.00	$\beta$ -Alanine	3.552	36.7
4.00–4.75	$\epsilon$ -Aminocaproic acid	4.373	28.8
4.75–5.25	Creatinine	4.828	37.2
5.50–6.25	Histidine	6.04	29.6
6.50–7.25	Imidazole	7.15	52.0
7.50–8.25	Tris	8.076	29.5
8.50–9.25	Amediol	8.78	29.5
9.50–10.0	Ethanolamine	9.498	44.3

TABLE II

SIMULATED EFFECTIVE MOBILITIES AND CONCENTRATION OF LEADING ZONE CONSTITUENTS (25°C)

$pH_L$  = pH of leading electrolyte,  $\bar{m}_L$  = effective mobility ( $\text{cm}^2 \text{V}^{-1} \text{sec}^{-1} \times 10^5$ ) of leading ion ( $\text{Cl}^-$ ),  $m_0$  of  $\text{Cl}^-$  being  $79.08 \times 10^{-5} \text{cm}^2 \text{V}^{-1} \text{sec}^{-1}$ ;  $C'_{B,L}$  = total concentration (mM) of buffer ion;  $\bar{m}_{B,L}$  = effective mobility ( $\text{cm}^2 \text{V}^{-1} \text{sec}^{-1} \times 10^5$ ) of buffer ion, the counter direction being indicated by a negative sign;  $\kappa_L$  = specific conductivity ( $\text{S cm}^{-1}$ ) of leading zone,  $E_L$  = potential gradient ( $\text{V cm}^{-1}$ ) of leading zone at a driving current of  $100 \mu\text{A}$  (I.D. of narrow bore tube = 0.5 mm);  $v$  = isotachophoretic zone velocity ( $\text{cm sec}^{-1} \times 10^3$ )

Buffer	$pH_L$	$\bar{m}_L$	$C'_{B,L}$	$\bar{m}_{B,L}$	$\kappa_L$	$E_L$	$v$
$\beta$ -Alanine	3.00	74.64	11.28	-26.48	1.348	37.77	28.20
	3.25	74.61	13.68	-22.88	1.212	41.98	31.32
	3.50	74.57	17.43	-18.43	1.137	44.80	33.40
	3.75	74.51	23.79	-13.70	1.094	46.56	34.69
	4.00	74.44	34.94	-9.40	1.069	47.63	35.46
$\epsilon$ -Aminocaproic acid	4.00	74.60	13.68	-18.41	0.997	51.09	38.12
	4.25	74.58	16.70	-15.15	0.982	51.84	38.65
	4.50	74.48	22.01	-11.52	0.974	52.29	38.94
	4.75	74.40	31.42	-8.08	0.969	52.57	39.11
Creatinine	4.75	74.57	17.50	-19.20	1.050	48.51	36.18
	5.00	74.52	23.37	-14.39	1.047	48.65	36.25
	5.25	74.45	33.80	-9.95	1.045	48.74	36.29
Histidine	5.50	74.63	12.59	-20.82	0.974	52.28	39.02
	5.75	74.59	14.62	-17.93	0.973	52.33	39.03
	6.00	74.53	18.22	-14.39	0.972	52.37	39.03
	6.25	74.46	24.62	-10.65	0.972	52.42	39.03
Imidazole	6.50	74.67	12.02	-40.08	1.202	42.97	32.08
	6.75	74.66	13.59	-35.44	1.185	42.97	32.08
	7.00	74.63	16.38	-29.40	1.185	42.98	32.08
	7.25	74.60	21.35	-22.56	1.185	42.99	32.07
Tris	7.50	74.63	12.39	-21.08	0.972	52.38	39.10
	7.75	74.60	14.26	-18.32	0.972	52.40	39.09
	8.00	74.54	17.57	-14.87	0.971	52.43	39.08
	8.25	74.47	23.46	-11.14	0.971	52.45	39.06
Amediol	8.50	74.59	14.74	-17.73	0.972	52.38	39.07
	8.75	74.53	18.42	-14.19	0.972	52.38	39.04
	9.00	74.45	24.99	-10.46	0.973	52.37	38.99
	9.25	74.37	36.67	-7.14	0.973	52.32	38.91
Ethanolamine	9.50	74.58	19.12	-21.31	1.119	45.53	33.95
	9.75	74.53	26.25	-15.56	1.124	45.32	33.77
	10.00	74.47	39.01	-10.51	1.133	44.94	33.46

literature but  $m_0$  could not. In such cases, the  $m_0$  values were assumed equal to those of compounds of similar structure or similar molecular weight.

The calculations were carried using a SORD microcomputer M223 Mk III

equipped with two 1 MB floppy disk drivers. The results were filed on a floppy disk. To calculate 8897 ( $287 \times 31$ )  $R_E$  values required *ca.* 10 h.

## USE OF INDICES

The names of the 287 anionic substances simulated are arranged in alphabetical order in Table III. The simulated results are summarized in Table IV together with values of  $m_0$  and  $pK_a$ , the molecular formula and molecular weight. The negative signs of  $m_0$  for anions are omitted except for a few amino acids. Also listed in Table IV are the ratio,  $R_E$ , of the potential gradient of the sample zone,  $E_s$ , to that of the leading zone,  $E_L$ , the time-based zone length,  $t$  (sec), the effective charge,  $-Z$ , and the pH of the sample zone,  $pH_s$ , at each  $pH_L$ .

### I. Correction of asymmetric potential

When a potential gradient detector is used, the actual baseline for the measurement of the step heights of the leading,  $h_L$ , and the sample zone,  $h_s$ , sometimes drifts due to an asymmetric potential at the sensing electrodes. This drift sometimes results in a significant error in the observed  $R_E$  values. In such cases, the simulated  $R_E$  values of samples with well defined  $m_0$  and  $pK_a$  can be obtained from an evaluation of the drifted step height,  $\Delta h$ . In Table IV, the  $R_E$  values of substances marked with (S),  $R_E$  (std), are useful as internal standard indices. The  $\Delta h$  can be evaluated as

$$\Delta h = [h_{std} - h_L \cdot R_E(std)] / [R_E(std) - 1] \quad (1)$$

where  $h_{std}$  is the apparent step height of the zone of the internal standard and  $h_L$  that of the leading zone. Using  $\Delta h$ , the  $R_E$  values of the sample components can be corrected

$$R_E = E_s/E_L = (h_s + \Delta h)/(h_L + \Delta h) \quad (2)$$

where  $h_s$  is the observed step height of the sample. Examples of this mode of correction were reported in ref. 5.

### II. Assessment of separability

From Table IV, one can assess the separability of the given samples by comparing the  $R_E$  indices at the different  $pH_L$  values. According to our experience, when the  $R_E$  values of two samples coincided within *ca.* 0.15, their separation was difficult or impossible. The linear interpolation of adjacent  $R_E$  values gives approximate  $R_E$  values at any  $pH_L$  using the same buffer: *e.g.*, the  $R_E$  values of acetic acid at  $pH_L$  3 and 3.25 are 8.876 and 7.444, then the  $R_E$  value at  $pH_L$  3.125 can be estimated as  $8.876 - (8.876 - 7.444) \times 0.125/0.25 = 8.160$ . The exactly simulated value is 8.090 and the discrepancy is thus slight.

For the estimation of  $pH_L$  and the selection of a terminator for optimum separation, the  $pH_L$  should be selected so as to result in sufficient difference between the  $R_E$  values of the samples. A plot of  $R_E$  against  $pH_L$  is useful for this purpose. Fig. 1 shows the dependence on  $pH_L$  of the  $R_E$  values of benzoate (No. 12 in Table IV), cacodylate (27), caproate (29), chlorate (32), citrate (57), phenolate (229) and N-tris(hydroxymethyl)methyl-3-aminopropanesulphonic acid (TAPS) (262). In the range

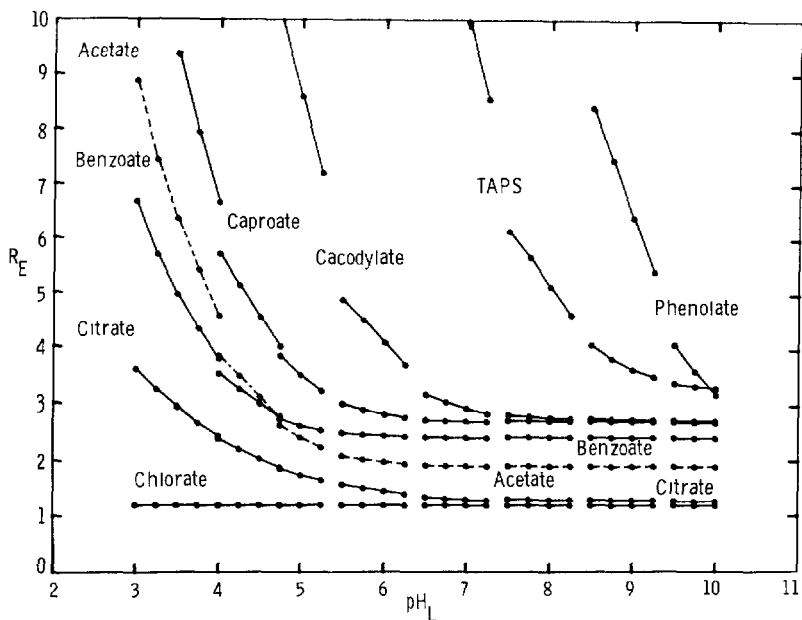


Fig 1 Effect of  $\text{pH}_L$  and the buffers on the simulated  $R_E$  values of chlorate, citrate, benzoate, acetate, caproate, cacodylate, TAPS and phenolate ions at the isotachophoretically steady state. The leading ion was  $10 \text{ mM Cl}^-$ . The buffers used were  $\beta$ -alanine ( $\text{pH}_L = 3-4$ ),  $\epsilon$ -aminocaproic acid (4-4.75), creatinine (4.75-5.25), histidine (5.5-6.25), imidazole (6.5-7.25), tris(hydroxymethyl)aminomethane (7.5-8.25), amediol (8.5-9.25), and ethanolamine (9.5-10).

$\text{pH}_L$  5.5-6.25 histidine buffer, chlorate, citrate, acetate, benzoate and caproate ions can easily be separated using cacodylate ion as terminator. At intermediate  $\text{pH}_L$  values of 4.5-4.75 ( $\epsilon$ -aminocaproic acid buffer), benzoate and acetate ions may form a mixed zone. In the low  $\text{pH}_L$  range 3-4 the samples can easily be separated, however, cacodylate ion is not suitable as the terminator as the  $R_E$  values are too large, caprylate (30) may be suitable. The separability is strongly dependent on the sample amount. For the separation of large amounts of samples, a high loading of leading ion is necessary, even when the difference between  $R_E$  values is larger than *ca.* 0.15 (the latter is only a measure of the separation).

### III. Qualitative identification

For the identification of unknown samples, the method of standard addition has usually been employed. Instead qualitative identification can be achieved by comparing the observed and simulated  $R_E$  values, if the  $R_E$  values are measured carefully using an internal standard. At least, the possible candidates for the components in actual samples can be limited to several kinds, and their number can be reduced further by considering the  $R_E$  values measured at other  $\text{pH}_L$  values. This procedure can be performed rapidly by computer-sorting of samples having similar  $R_E$  values to those observed.

### IV. Quantitation

When the separated samples are identified, their amounts can be determined

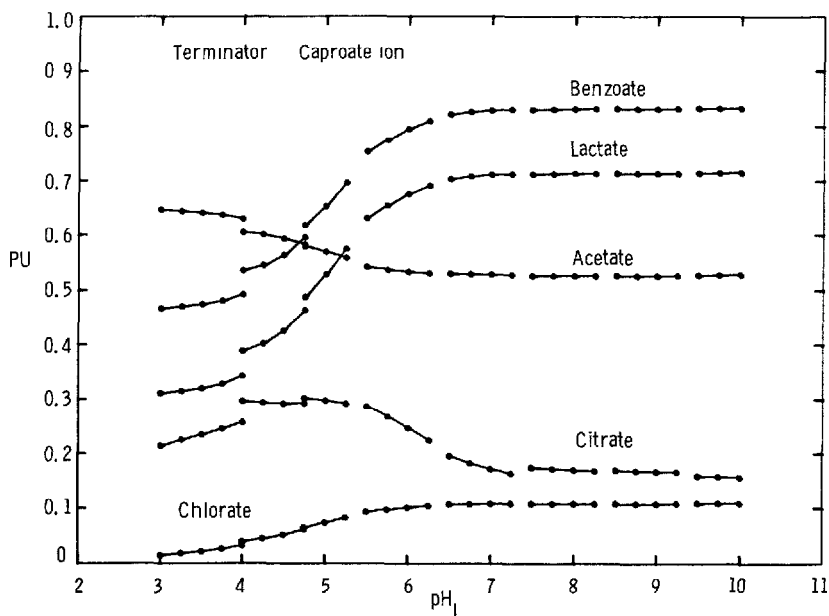


Fig 2 Effect of  $\text{pH}_L$  and the buffers on the simulated PU values of chlorate, citrate, lactate, benzoate and acetate ions at the isotachophoretically steady state. The terminator is caproate ion. For the electrolyte systems, see Fig. 1

using the simulated and observed zone lengths. In Table IV the simulated time-based zone lengths,  $t$ (sec), are listed for 10-nmol samples at a driving current of  $100 \mu\text{A}$ . If the observed time-based zone length is  $t_{\text{obs}}$ (sec) at a driving current of  $I$  ( $\mu\text{A}$ ), the sample amount,  $n_s$ (nmol), can be expressed:

$$n_s = t_{\text{obs}} I / 10 t \quad (3)$$

For example, at a driving current of  $50 \mu\text{A}$  and  $\text{pH}_L$  6, the time-based zone length of acetic acid was 50 sec. The sample amount can easily be estimated as  $50 \times 50 / 10 \times 16.22 = 15.4$  nmol, and the slope of the calibration line,  $I/10t$ , is 0.308.

#### V. Conversion of $R_E$ into different qualitative indices

Besides  $R_E$ , several qualitative indices have been proposed such as relative step height<sup>4</sup>, IRM<sup>6</sup>, PU<sup>7</sup>, PR<sup>8</sup>, RU ( $= \text{IRM} \times 100$ )<sup>9</sup> and SU ( $= \text{PU} \times 100$ )<sup>9</sup>. The definition of IRM is the same as  $R_E$  and  $\text{PR} = 1/R_E$ . PU is defined as

$$\text{PU} = (h_s - h_L) / (h_T - h_L) \quad (4)$$

where  $h_T$  is the step height of the terminating zone. The  $R_E$  values of samples can be converted into PU values using the  $R_E$  value of the sample,  $R_E(S)$ , and terminating ion,  $R_E(T)$ :

$$\text{PU} = [R_E(S) - 1] / [R_E(T) - 1] \quad (5)$$

Fig. 2 shows the pH dependence of PU values for acetate (1), benzoate (12), chlorate (32), citrate (57) and lactate (184) using  $R_E$  values of caproate ion (29) as the terminator. A similar conversion of the relative step heights of 65 anions<sup>4</sup> to  $R_E$  values has been reported in ref. 5

Thus, the simulated qualitative and quantitative indices can be utilized for several analytical purposes, although the number of simulated samples is limited. It should be noted that the accuracy of the simulated indices depends mainly on the physico-chemical constants of the samples and buffers used. The present table is as yet in an experimental stage, but by continuous revision it will be used widely in future as a data base for isotachopheresis. We await the critical comments of users.

Similar tables for amino acids and cations will be submitted in due course.

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(For Tables III and IV, see pp. D8–D106, references to Table IV are listed on p. D106)

TABLE III

ANIONIC SUBSTANCES LISTED ALPHABETICALLY IN TABLE IV

No.	Samples	No.	Samples
1	ACETIC ACID (S)	49	2-CHLOROPROPIONIC ACID
2	ACRYLIC ACID	50	3-CHLOROPROPIONIC ACID
3	ADIPIC ACID	51	CHLOROUS ACID
4	ALLYLACETIC ACID	52	5-CHLOROVALERIC ACID
5	o-AMINOBENZOIC ACID	53	CHROMIC ACID
6	p-AMINOBENZOIC ACID	54	CINNAMIC ACID
7	ARSENIC ACID	55	cis-CINNAMIC ACID
8	ASPARTIC ACID	56	CITRACONIC ACID
9	ASPIRIN	57	CITRIC ACID (S)
10	AZELAIC ACID	58	CRESOL
11	BENZENESULFONIC ACID	59	m-CRESOL
12	BENZOIC ACID (S)	60	p-CRESOL
13	BENZYLASPARTIC ACID	61	CROTONIC ACID
14	BROMIC ACID (S)	62	CYANIC ACID
15	BROMOACETIC ACID (S)	63	CYANOACETIC ACID
16	m-BROMOBENZOIC ACID	64	m-CYANOBENZOIC ACID
17	o-BROMOBENZOIC ACID	65	CYCLOBUTANE-1,1-DICARBOXYLIC ACID
18	p-BROMOBENZOIC ACID	66	CYCLOHEXANE-1,1-DICARBOXYLIC ACID
19	2-BROMOBUTYRIC ACID	67	CYCLOPENTANE-1,1-DICARBOXYLIC ACID
20	4-BROMOBUTYRIC ACID	68	DECYLSULFONIC ACID
21	o-BROMOPHENYLACETIC ACID	69	DIBROMOFLUOROACETIC ACID
22	2-BROMOPROPIONIC ACID	70	2,3-DIBROMOPROPIONIC ACID
23	5-BROMOVALERIC ACID	71	DICHLOROACETIC ACID (S)
24	o-t-BUTYLBENZOIC ACID	72	DICHLOROFLUOROACETIC ACID
25	p-t-BUTYLBENZOIC ACID	73	2,4-DICHLOROPHENOL
26	BUTYRIC ACID (S)	74	2,4-DICHLOROPHENOXYACETIC ACID
27	CACODYLIC ACID	75	DICHROMIC ACID
28	CAPRIC ACID	76	DIETHYLACETIC ACID
29	CAPROIC ACID (S)	77	DIETHYLMALONIC ACID
30	CAPRYLIC ACID	78	DIFLUOROACETIC ACID
31	CARBONIC ACID	79	2,4-DIHYDROXYBENZOIC ACID
32	CHLORIC ACID (S)	80	2,5-DIHYDROXYBENZOIC ACID
33	2-CHLORO-3-OH-BUTYRIC ACID	81	2,6-DIHYDROXYBENZOIC ACID
34	CHLOROACETIC ACID	82	3,4-DIHYDROXYBENZOIC ACID
35	m-CHLOROBENZOIC ACID	83	3,5-DIHYDROXYBENZOIC ACID
36	o-CHLOROBENZOIC ACID	84	DIHYDROXYTARTARIC ACID
37	p-CHLOROBENZOIC ACID	85	2,3-DIMETHYLBENZOIC ACID
38	2-CHLOROBUTYRIC ACID	86	2,4-DIMETHYLBENZOIC ACID
39	3-CHLOROBUTYRIC ACID	87	2,5-DIMETHYLBENZOIC ACID
40	2-CHLOROCROTONIC ACID	88	2,6-DIMETHYLBENZOIC ACID
41	3-CHLOROCROTONIC ACID	89	3,4-DIMETHYLBENZOIC ACID
42	CHLORODIBROMOACETIC ACID	90	3,5-DIMETHYLBENZOIC ACID
43	CHLORODIFLUOROACETIC ACID	91	DIMETHYLMALONIC ACID
44	2-CHLOROISOCROTONIC ACID	92	2,6-DINITROBENZOIC ACID
45	m-CHLOROPHENOL	93	3,5-DINITROBENZOIC ACID
46	o-CHLOROPHENOL	94	2,3-DINITROPHENOL
47	p-CHLOROPHENOL	95	2,4-DINITROPHENOL
48	p-CHLOROPHENYLACETIC ACID	96	2,5-DINITROPHENOL



No.	Samples	No.	Samples
97	2,6-DINITROPHENOL	145	3-HYDROXY-o-TOLUIC ACID
98	3,4-DINITROPHENOL	146	3-HYDROXY-p-TOLUIC ACID
99	3,5-DINITROPHENOL	147	4-HYDROXY-m-TOLUIC ACID
100	DIPHENYLACETIC ACID	148	6-HYDROXY-o-TOLUIC ACID
101	DIPROPYLMALONIC ACID	149	m-HYDROXYBENZOIC ACID
102	DITHIONIC ACID	150	p-HYDROXYBENZOIC ACID
103	DITHIONOUS ACID	151	2-HYDROXYBUTYRIC ACID
104	DODECYLSULFONIC ACID	152	3-HYDROXYBUTYRIC ACID
105	ENANTHYLIC ACID	153	4-HYDROXYBUTYRIC ACID
106	o-ETHOXYBENZOIC ACID	154	m-HYDROXYCINNAMIC ACID
107	p-ETHOXYBENZOIC ACID	155	o-HYDROXYCINNAMIC ACID
108	o-ETHYLBENZOIC ACID	156	p-HYDROXYCINNAMIC ACID
109	p-ETHYLBENZOIC ACID	157	2-HYDROXYISOBUTYRIC ACID (S)
110	2-ETHYLBUTYRIC ACID	158	p-HYDROXYPHENYLACETIC ACID
111	ETHYLFUMARIC ACID	159	HYDROXYTRIMETHYLACETIC ACID
112	3-ETHYLGLUTARIC ACID	160	2-HYDROXYVALERIC ACID
113	ETHYLMALEIC ACID	161	4-HYDROXYVALERIC ACID
114	ETHYLMALONIC ACID	162	HYPOPHOSPHOROUS ACID (S)
115	ETHYLPROPYLMALONIC ACID	163	IODIC ACID
116	ETHYLSULFONIC ACID	164	IDOACETIC ACID
117	FLUOROACETIC ACID	165	m-IODOBENZOIC ACID
118	m-FLUOROBENZOIC ACID	166	o-IODOBENZOIC ACID
119	o-FLUOROBENZOIC ACID	167	p-IODOBENZOIC ACID
120	p-FLUOROBENZOIC ACID	168	4-IODOBUTYRIC ACID
121	FORMIC ACID (S)	169	m-IODOPHENYLACETIC ACID
122	FUMARIC ACID	170	o-IODOPHENYLACETIC ACID
123	GALLIC ACID	171	p-IODOPHENYLACETIC ACID
124	GLUCONIC ACID	172	3-IODOPROPIONIC ACID
125	GLUCURONIC ACID	173	5-IDOVALERIC ACID
126	GLUTACONIC ACID	174	ISOBUTYRIC ACID
127	GLUTAMIC ACID (S)	175	ISOCAPROIC ACID
128	GLUTARIC ACID	176	ISOCITRIC ACID
129	GLYCERIC ACID	177	ISOPHTHALIC ACID
130	GLYCOLIC ACID	178	o-ISOPROPYLBENZOIC ACID
131	GLYOXYLIC ACID	179	p-ISOPROPYLBENZOIC ACID
132	HIPPURIC ACID	180	ISOPROPYLMALONIC ACID
133	HYDROBROMIC ACID	181	ISOVALERIC ACID
134	HYDROCHLORIC ACID	182	ITACONIC ACID
135	HYDROCYANIC ACID	183	2-KETOGLUTARIC ACID
136	HYDROFLUORIC ACID (S)	184	LACTIC ACID (S)
137	HYDROGEN AZIDE	185	LAURYL SULFONIC ACID
138	HYDROGEN HEXAFLUOROPHOSPHIDE	186	LEVULINIC ACID
139	HYDROGEN SULFIDE	187	MALEIC ACID
140	HYDRIODIC ACID	188	MALIC ACID
141	2-HYDROXY-3-CHLOROBUTYRIC A.	189	MALONIC ACID (S)
142	2-HYDROXY-3-Cl-ISOBUTYRIC A.	190	MANDELIC ACID
143	2-HYDROXY-3-Cl-PROPIONIC A.	191	MES (S)
144	2-HYDROXY-m-TOLUIC ACID	192	MESACONIC ACID

No.	Samples	No.	Samples
193	MESOTARTARIC ACID	241	3-PROPYLGLUTARIC ACID
194	METHACRYLIC ACID	242	PROPYLMALONIC ACID
195	METHOXYACETIC ACID	243	PROPYLSULFONIC ACID
196	m-METHOXYBENZOIC ACID	244	PYRAZOLE-2,3-DICARBOXYLIC ACID
197	o-METHOXYBENZOIC ACID	245	PYROPHOSPHORIC ACID
198	p-METHOXYBENZOIC ACID	246	PYRUVIC ACID
199	p-METHOXYPHENYLACETIC ACID	247	SACCHARIN
200	METHYLETHYLMALONIC ACID	248	SALICYLIC ACID
201	METHYLMALONIC ACID	249	SEBACIC ACID
202	METHYLSULFONIC ACID	250	SELENIC ACID
203	2-NAPHTALENESULFONIC ACID	251	SELENIOS ACID
204	NICOTINIC ACID	252	SELENOCYANIC ACID
205	NITRIC ACID	253	SORBIC ACID
206	2-NITRO-3-BROMOBENZOIC ACID	254	SUBERIC ACID
207	3-NITRO-2-BROMOBENZOIC ACID	255	SUCCINIC ACID (S)
208	3-NITRO-4-BROMOBENZOIC ACID	256	SULFAMIC ACID (S)
209	2-NITRO-3-CHLOROBENZOIC ACID	257	SULFANILIC ACID
210	3-NITRO-4-CHLOROBENZOIC ACID	258	m-SULFANILIC ACID
211	3-NITRO-5-CHLOROBENZOIC ACID	259	o-SULFANILIC ACID
212	m-NITROBENZOIC ACID	260	SULFURIC ACID
213	o-NITROBENZOIC ACID	261	SULFUROUS ACID
214	p-NITROBENZOIC ACID	262	TAPS
215	m-NITROPHENOL	263	TARTARIC ACID (S)
216	o-NITROPHENOL	264	TARTRONIC ACID
217	p-NITROPHENOL	265	TEREPHTHALIC ACID
218	NITROUS ACID	266	THIOACETIC ACID
219	OCTYLSULFONIC ACID	267	THIOCYANIC ACID
220	OROTIC ACID	268	THIOCYANOACETIC ACID
221	OXALIC ACID (S)	269	THIOGLYCOLIC ACID
222	OXALOACETIC ACID	270	THIOSULFURIC ACID
223	PELARGONIC ACID	271	p-TOLUENESULFONIC ACID
224	PERCHLORIC ACID (S)	272	m-TOLUIC ACID
225	PERIODIC ACID	273	o-TOLUIC ACID
226	PERMANGANIC ACID	274	p-TOLUIC ACID
227	PEROXYSLFURIC ACID	275	TRIBROMOACETIC ACID
228	PERRHENIC ACID	276	TRICHLOROACETIC ACID
229	PHENOL	277	TRICHLOROACRYLIC ACID
230	PHENOXYACETIC ACID	278	TRICHLOROLACTIC ACID
231	PHENYLACETIC ACID	279	TRIMETAPHOSPHORIC ACID
232	4-PHENYLBUTYRIC ACID	280	TRIMETHYLACETIC ACID (S)
233	2-PHENYLPROPIONIC ACID	281	TRIMETHYLACRYLIC ACID
234	3-PHENYLPROPIONIC ACID	282	2,4,6-TRIMETHYLBENZOIC ACID
235	PHOSPHORIC ACID (S)	283	TRIMETILPYRUVIC ACID
236	PHOSPHOROUS ACID	284	VALERIC ACID
237	PHTHALIC ACID	285	VANILLIC ACID
238	PICRIC ACID	286	VINYLAETIC ACID
239	PIMELIC ACID	287	VINYLGLYCOLIC ACID
240	PROPIONIC ACID (S)		

TABLE IV  
ISOTACHOPHORETIC INDICES OF 287 ANIONIC SUBSTANCES

1	ACETIC ACID (S)			C2H4O2			pHL RE t Z PHS	3.00 8.876 21.01 0.206 4.151	3.25 7.444 20.13 0.247 4.249	3.50 6.370 19.51 0.289 4.342					
	-1	42.4	4.756			60.05									
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	5.428	4.576	3.848	3.485	3.111	2.763					2.650	2.427	2.244	2.087	2.027
	19.02	18.64	16.48	16.37	16.26	16.18					18.16	18.12	18.09	16.23	16.22
	0.340	0.404	0.485	0.537	0.603	0.681	0.711	0.778	0.843	0.912	0.940				
	4.443	4.561	4.700	4.789	4.904	5.050	5.112	5.264	5.449	5.733	5.910				
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50				
	1.980	1.949	1.925	1.915	1.909	1.904	1.912	1.910	1.909	1.908	1.909				
	16.22	16.21	21.62	21.61	21.61	21.61	16.18	16.18	16.19	16.20	16.20				
	0.962	0.978	0.988	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000				
	6.122	6.355	6.651	6.887	7.132	7.380	7.593	7.841	8.091	8.340	8.591				
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1									
1.908	1.907	1.906	1.902	1.901	1.899										
16.23	16.27	16.34	20.09	20.36	20.85										
1.000	1.000	1.000	1.000	1.000	1.000										
8.842	9.092	9.343	9.626	9.878	10.133										
2	ACRYLIC ACID			C3H4O2			pHL RE t Z PHS	3.00 5.663 21.28 0.324 3.914	3.25 4.816 20.26 0.382 4.023	3.50 4.183 19.56 0.441 4.127					
	-1	42.7	4.258			72.06									
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	3.635	3.153	2.863	2.638	2.422	2.241					2.206	2.093	2.012	1.963	1.936
	19.00	18.59	16.48	16.34	16.21	16.12					18.11	18.06	18.03	16.18	16.17
	0.509	0.588	0.653	0.710	0.775	0.839	0.853	0.900	0.937	0.964	0.978				
	4.244	4.382	4.498	4.611	4.758	4.938	4.983	5.173	5.390	5.650	5.865				
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50				
	1.918	1.907	1.896	1.893	1.890	1.888	1.896	1.896	1.895	1.893	1.895				
	16.16	16.16	21.53	21.53	21.52	21.52	16.13	16.13	16.14	16.15	16.15				
	0.987	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000				
	6.100	6.344	6.634	6.879	7.128	7.377	7.590	7.839	8.089	8.339	8.590				
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 3									
1.894	1.893	1.892	1.889	1.887	1.885										
16.18	16.22	16.29	20.01	20.27	20.76										
1.000	1.000	1.000	1.000	1.000	1.000										
8.840	9.091	9.341	9.624	9.877	10.131										
3	ADIPIC ACID			C6H10O4			pHL RE t Z PHS	3.00 9.612 31.81 0.335 4.042	3.25 7.981 30.07 0.404 4.147	3.50 6.740 29.04 0.480 4.248					
	-1	24.6	4.430			146.14									
	-2	52.4	5.277												
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	5.657	4.689	4.086	3.601	3.124	2.698					2.587	2.307	2.086	1.918	1.840
	28.45	28.28	25.15	25.48	26.02	26.77	30.54	31.29	32.03	29.61	29.95				
	0.574	0.695	0.807	0.919	1.062	1.234	1.286	1.446	1.602	1.764	1.840				
	4.359	4.489	4.599	4.705	4.839	5.002	5.055	5.223	5.419	5.692	5.882				
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50				
	1.783	1.745	1.708	1.696	1.687	1.680	1.703	1.701	1.698	1.696	1.699				
	30.22	30.39	40.01	40.06	40.07	40.06	30.61	30.62	30.62	30.63	30.66				
	1.900	1.941	1.968	1.982	1.990	1.994	1.996	1.998	1.999	1.999	2.000				
6.102	6.338	6.625	6.863	7.108	7.356	7.577	7.826	8.076	8.325	8.576					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1									
1.697	1.695	1.693	1.682	1.678	1.675										
30.69	30.75	30.85	37.38	37.77	38.49										
2.000	2.000	2.000	2.000	2.000	2.000										
8.826	9.076	9.327	9.603	9.854	10.107										

4	ALLYLACETIC ACID			C5H8O2							
	-1	33.9	4.674	100.12			pHL	3.00	3.25	3.50	
							RE	10.017	8.409	7.202	
							t	24.29	23.04	22.18	
							Z	0.230	0.275	0.322	
							pHS	4.130	4.232	4.328	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	6.150	5.208	4.527	4.100	3.673	3.288	3.176	2.930	2.736	2.595	2.530
	21.51	21.01	18.32	18.17	18.03	17.93	20.44	20.39	20.35	18.01	18.00
	0.378	0.448	0.521	0.576	0.645	0.723	0.749	0.814	0.873	0.928	0.952
	4.434	4.558	4.681	4.777	4.902	5.058	5.116	5.281	5.477	5.745	5.936
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.483	2.451	2.423	2.413	2.407	2.402	2.418	2.416	2.414	2.412	2.415
17.99	17.99	24.82	24.82	24.81	24.81	17.95	17.96	17.96	17.97	17.99	
0.971	0.983	0.991	0.995	0.997	0.998	0.999	0.999	1.000	1.000	1.000	
6.157	6.394	6.702	6.942	7.188	7.437	7.635	7.884	8.134	8.384	8.636	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1 , 3					
2.413	2.411	2.408	2.402	2.398	2.394						
18.03	18.09	18.19	23.02	23.47	24.34						
1.000	1.000	1.000	1.000	1.000	1.000						
8.886	9.137	9.388	9.686	9.941	10.199						
5	o-AMINO BENZOIC ACID			C7H7NO2							
	1	31.6	2.108	137.10			pHL	3.00	3.25	3.50	
	-1	-31.6	4.939				RE	13.704	11.444	9.740	
							t	25.78	24.32	23.32	
							Z	0.180	0.216	0.254	
							pHS	4.282	4.374	4.462	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	8.245	6.895	5.799	5.208	4.602	4.038	3.835	3.472	3.169	2.909	2.808
	22.54	21.95	19.01	18.84	18.70	18.58	21.27	21.22	21.18	18.67	18.66
	0.301	0.362	0.435	0.485	0.551	0.631	0.665	0.736	0.809	0.890	0.923
	4.559	4.674	4.802	4.888	5.000	5.141	5.206	5.353	5.533	5.810	5.980
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.727	2.672	2.623	2.606	2.595	2.588	2.607	2.603	2.601	2.598	2.601
18.65	18.65	26.00	25.99	25.99	25.98	18.61	18.61	18.62	18.63	18.65	
0.951	0.970	0.985	0.991	0.995	0.997	0.998	0.999	0.999	1.000	1.000	
6.188	6.417	6.730	6.965	7.209	7.457	7.652	7.900	8.149	8.399	8.651	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1					
2.599	2.596	2.593	2.585	2.581	2.576						
18.69	18.76	18.88	24.12	24.66	25.72						
1.000	1.000	1.000	1.000	1.000	1.000						
8.901	9.152	9.404	9.707	9.963	10.223						
6	p-AMINO BENZOIC ACID			C7H7NO2							
	1	31.6	2.413	137.10			pHL	3.00	3.25	3.50	
	-1	-31.6	4.853				RE	12.621	10.570	9.018	
							t	26.28	24.68	23.57	
							Z	0.196	0.234	0.275	
							pHS	4.259	4.346	4.432	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	7.653	6.422	5.459	4.915	4.361	3.849	3.678	3.349	3.081	2.865	2.775
	22.70	22.05	19.07	18.88	18.72	18.59	21.28	21.22	21.18	18.67	18.66
	0.325	0.389	0.463	0.515	0.583	0.663	0.694	0.764	0.833	0.904	0.934
	4.528	4.643	4.767	4.856	4.972	5.117	5.179	5.333	5.518	5.791	5.969
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.706	2.659	2.617	2.603	2.593	2.587	2.606	2.603	2.600	2.598	2.601
18.65	18.65	26.00	25.99	25.99	25.98	18.61	18.61	18.62	18.63	18.65	
0.959	0.975	0.988	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	
6.181	6.414	6.727	6.963	7.209	7.457	7.651	7.900	8.149	8.399	8.651	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1					
2.599	2.596	2.593	2.585	2.581	2.576						
18.69	18.76	18.88	24.12	24.66	25.72						
1.000	1.000	1.000	1.000	1.000	1.000						
8.901	9.152	9.404	9.707	9.963	10.223						



10 AZELAIC ACID				C9H16O4				pH	3.00	3.25	3.50
-1	22.0	4.550	188.22	RE	11.739	9.723	8.186				
-2	45.9	5.333		t	34.49	32.49	31.28				
				Z	0.307	0.373	0.444				
				pHS	4.110	4.213	4.311				
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
6.845	5.647	4.905	4.307	3.719	3.195	3.048	2.705	2.434	2.233	2.138	
30.56	30.31	26.70	27.00	27.52	28.26	32.55	33.33	34.13	31.30	31.69	
0.534	0.651	0.761	0.871	1.014	1.189	1.245	1.410	1.575	1.745	1.827	
4.420	4.546	4.652	4.754	4.883	5.041	5.096	5.260	5.452	5.720	5.908	
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
2.067	2.020	1.973	1.958	1.947	1.939	1.971	1.968	1.964	1.961	1.965	
31.98	32.18	43.29	43.33	43.35	43.34	32.44	32.44	32.45	32.46	32.50	
1.892	1.936	1.966	1.980	1.989	1.994	1.996	1.998	1.999	1.999	2.000	
6.127	6.362	6.657	6.896	7.141	7.389	7.602	7.850	8.100	8.349	8.601	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1					
1.963	1.960	1.956	1.941	1.936	1.931						
32.54	32.61	32.74	40.34	40.86	41.85						
2.000	2.000	2.000	2.000	2.000	2.000						
8.851	9.101	9.352	9.636	9.888	10.142						
11 BENZENESULFONIC ACID				C6H6O3S				pH	3.00	3.25	3.50
-1	38.7	-2.000	158.17	RE	2.093	2.093	2.093				
				t	25.93	23.10	21.37				
				Z	1.000	1.000	1.000				
				pHS	3.239	3.453	3.669				
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
2.092	2.092	2.100	2.100	2.099	2.097	2.096	2.094	2.093	2.101	2.101	
20.29	19.64	17.51	17.16	16.95	16.83	19.05	18.99	18.95	16.90	16.89	
1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
3.896	4.134	4.137	4.369	4.611	4.857	4.878	5.126	5.375	5.609	5.858	
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
2.100	2.098	2.093	2.092	2.091	2.090	2.102	2.101	2.100	2.098	2.101	
16.89	16.88	22.83	22.83	22.83	22.82	16.85	16.85	16.86	16.87	16.88	
1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
6.107	6.357	6.651	6.901	7.151	7.401	7.607	7.857	8.107	8.357	8.608	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12					
2.099	2.098	2.096	2.092	2.090	2.087						
16.91	16.95	17.04	21.19	21.52	22.14						
1.000	1.000	1.000	1.000	1.000	1.000						
8.859	9.109	9.360	9.650	9.903	10.159						
12 BENZOIC ACID				C7H6O2				pH	3.00	3.25	3.50
-1	33.6	4.203	122.12	RE	6.683	5.705	4.971				
				t	24.91	23.46	22.47				
				Z	0.352	0.413	0.476				
				pHS	3.913	4.025	4.134				
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
4.339	3.791	3.525	3.255	3.004	2.801	2.762	2.637	2.551	2.509	2.480	
21.72	21.16	18.49	18.29	18.12	18.00	20.56	20.50	20.46	18.09	18.08	
0.547	0.628	0.681	0.739	0.803	0.863	0.875	0.917	0.949	0.971	0.982	
4.256	4.400	4.500	4.622	4.778	4.967	5.012	5.212	5.435	5.683	5.905	
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
2.460	2.448	2.432	2.428	2.425	2.422	2.440	2.438	2.436	2.434	2.437	
18.07	18.07	24.97	24.96	24.96	24.95	18.03	18.04	18.04	18.06	18.07	
0.990	0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	
6.144	6.389	6.694	6.940	7.189	7.438	7.636	7.886	8.136	8.386	8.637	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1					
2.436	2.433	2.431	2.424	2.421	2.417						
18.11	18.17	18.28	23.16	23.62	24.51						
1.000	1.000	1.000	1.000	1.000	1.000						
8.888	9.138	9.390	9.689	9.944	10.202						

13	BENZYLASPARATIC ACID				C11H13NO4			pHL	3.00	3.25	3.50
	1	25.8	-3.000		223.23		RE	14.983	12.525	10.669	
	-1	-25.8	4.855				t	29.33	27.56	26.35	
							Z	0.203	0.243	0.287	
							pHS	4.243	4.344	4.439	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	9.051	7.605	6.621	5.944	5.269	4.659	4.463	4.070	3.758	3.531	
	25.44	24.77	21.23	21.03	20.86	20.73	24.07	24.01	23.98	20.89	
	0.339	0.406	0.471	0.527	0.597	0.678	0.708	0.778	0.845	0.909	
	4.544	4.666	4.779	4.874	4.996	5.147	5.209	5.369	5.560	5.822	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	3.342	3.288	3.233	3.217	3.206	3.198	3.231	3.227	3.224	3.219	
	20.86	20.86	29.96	29.95	29.94	29.93	20.82	20.83	20.84	20.85	
	0.962	0.978	0.989	0.994	0.996	0.998	0.999	0.999	1.000	1.000	
	6.224	6.459	6.782	7.021	7.267	7.515	7.698	7.946	8.196	8.446	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10				
	3.221	3.217	3.212	3.197	3.190	3.180					
	20.95	21.05	21.24	27.92	28.85	30.80					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.950	9.201	9.453	9.774	10.033	10.301					
14	BROMIC ACID (S)			-2.000	HBrO3		pHL	3.00	3.25	3.50	
	-1	57.8			128.91		RE	1.381	1.381	1.381	
							t	20.82	18.65	17.38	
							Z	1.000	1.000	1.000	
							pHS	3.101	3.333	3.567	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	1.380	1.380	1.382	1.382	1.382	1.381	1.381	1.381	1.380	1.383	
	16.62	16.19	14.80	14.55	14.41	14.34	15.80	15.76	15.73	14.38	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	3.806	4.051	4.053	4.295	4.542	4.790	4.799	5.048	5.298	5.541	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	1.382	1.382	1.381	1.380	1.380	1.380	1.383	1.382	1.382	1.382	
	14.37	14.37	18.28	18.28	18.29	18.29	14.34	14.35	14.35	14.36	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.040	6.290	6.559	6.809	7.059	7.309	7.540	7.790	8.040	8.290	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1 , 12				
	1.382	1.382	1.381	1.380	1.380	1.379					
	14.38	14.40	14.44	17.11	17.25	17.51					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.791	9.041	9.291	9.556	9.807	10.059					
15	BROMOACETIC ACID (S)			2.901	C2H3BrO2		pHL	3.00	3.25	3.50	
	-1	40.6			138.95		RE	2.556	2.374	2.247	
							t	23.93	21.93	20.62	
							Z	0.773	0.834	0.882	
							pHS	3.398	3.565	3.738	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	2.154	2.089	2.090	2.054	2.030	2.014	2.012	2.003	1.997	2.002	
	19.72	19.13	17.07	16.77	16.58	16.47	18.58	18.52	18.49	16.54	
	0.922	0.951	0.954	0.971	0.983	0.990	0.990	0.995	0.997	0.998	
	3.933	4.150	4.176	4.384	4.613	4.854	4.876	5.119	5.366	5.603	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	1.998	1.996	1.991	1.990	1.989	1.988	1.999	1.998	1.997	1.996	
	16.52	16.52	22.18	22.18	22.17	22.17	16.49	16.49	16.50	16.51	
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.099	6.348	6.639	6.889	7.139	7.389	7.598	7.848	8.098	8.348	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1				
	1.997	1.995	1.994	1.990	1.988	1.986					
	16.54	16.58	16.66	20.60	20.89	21.44					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.850	9.100	9.351	9.637	9.890	10.145					

16	m-BROMOBENZOIC ACID -1	31.5	3.812	C7H5BrO2 201.02	pHL RE t Z pHS	3.00	3.25	3.50								
						5.249	4.582	4.082								
						26.63	24.82	23.59								
						0.483	0.555	0.625								
						3.755	3.879	4.003								
						3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
						3.662	3.316	3.222	3.040	2.886	2.775	2.758	2.692	2.650	2.642	2.628
						22.67	22.02	19.22	18.95	18.74	18.60	21.36	21.28	21.23	18.71	18.69
						0.698	0.774	0.802	0.852	0.898	0.936	0.940	0.964	0.979	0.987	0.993
						4.145	4.314	4.385	4.536	4.722	4.936	4.974	5.197	5.434	5.671	5.908
						6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.618	2.611	2.598	2.595	2.593	2.590	2.611	2.610	2.608	2.606	2.609						
18.68	18.68	26.06	26.05	26.05	26.04	18.64	18.64	18.65	18.66	18.68						
0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
6.153	6.401	6.709	6.957	7.206	7.456	7.650	7.899	8.149	8.399	8.651						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1										
2.607	2.605	2.602	2.593	2.589	2.584											
18.72	18.79	18.92	24.17	24.72	25.78											
1.000	1.000	1.000	1.000	1.000	1.000											
8.902	9.153	9.404	9.708	9.964	10.224											
17	o-BROMOBENZOIC ACID -1	31.5	2.854	C7H5BrO2 201.02	pHL RE t Z pHS	3.00	3.25	3.50								
						3.183	2.993	2.860								
						28.37	25.76	24.03								
						0.810	0.862	0.904								
						3.449	3.617	3.791								
						3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
						2.763	2.695	2.705	2.667	2.641	2.624	2.619	2.609	2.602	2.614	2.611
						22.85	22.08	19.40	19.01	18.75	18.60	21.37	21.29	21.24	18.71	18.69
						0.936	0.961	0.962	0.976	0.986	0.992	0.992	0.996	0.998	0.999	0.999
						3.987	4.205	4.225	4.434	4.663	4.904	4.933	5.177	5.424	5.654	5.901
						6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.609	2.606	2.595	2.594	2.592	2.590	2.611	2.610	2.608	2.605	2.609						
18.68	18.68	26.06	26.05	26.05	26.04	18.64	18.64	18.65	18.66	18.68						
1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
6.150	6.399	6.707	6.956	7.206	7.456	7.649	7.899	8.149	8.399	8.651						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1										
2.607	2.605	2.602	2.593	2.589	2.584											
18.72	18.79	18.92	24.17	24.72	25.78											
1.000	1.000	1.000	1.000	1.000	1.000											
8.902	9.153	9.404	9.708	9.964	10.224											
18	p-BROMOBENZOIC ACID -1	31.5	3.971	C7H5BrO2 201.02	pHL RE t Z pHS	3.00	3.25	3.50								
						5.890	5.093	4.493								
						26.38	24.67	23.51								
						0.429	0.497	0.566								
						3.821	3.939	4.057								
						3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
						3.985	3.555	3.406	3.184	2.990	2.843	2.819	2.731	2.673	2.655	2.635
						22.63	22.00	19.18	18.93	18.74	18.60	21.35	21.28	21.23	18.71	18.69
						0.640	0.720	0.757	0.812	0.866	0.912	0.919	0.949	0.970	0.982	0.990
						4.190	4.349	4.431	4.571	4.745	4.950	4.991	5.206	5.439	5.679	5.911
						6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.622	2.614	2.599	2.596	2.593	2.590	2.611	2.610	2.608	2.606	2.609						
18.68	18.68	26.06	26.05	26.05	26.04	18.64	18.64	18.65	18.66	18.68						
0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000						
6.154	6.401	6.709	6.957	7.207	7.456	7.650	7.899	8.149	8.399	8.651						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1										
2.607	2.605	2.602	2.593	2.589	2.584											
18.72	18.79	18.92	24.17	24.72	25.78											
1.000	1.000	1.000	1.000	1.000	1.000											
8.902	9.153	9.404	9.708	9.964	10.224											



19	2-BROMOBUTYRIC ACID			C <sub>4</sub> H <sub>7</sub> BrO <sub>2</sub>			pHL			3.00	3.25	3.50
	-1	32.3	2.987	167.00			RE	3.263	3.033	2.870		
							t	27.66	25.22	23.61		
							Z	0.768	0.828	0.876		
							DHS	3.474	3.635	3.803		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	2.747	2.661	2.667	2.618	2.585	2.563	2.558	2.545	2.537	2.547	2.544	
	22.48	21.75	19.12	18.75	18.51	18.36	21.06	20.98	20.93	18.46	18.45	
	0.917	0.947	0.950	0.968	0.981	0.989	0.990	0.994	0.997	0.998	0.999	
	3.992	4.206	4.231	4.435	4.661	4.900	4.929	5.171	5.418	5.649	5.896	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.541	2.538	2.528	2.527	2.525	2.522	2.543	2.541	2.540	2.537	2.541	
	18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42	18.44	
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.144	6.394	6.700	6.949	7.199	7.449	7.644	7.894	8.144	8.394	8.646	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3					
	2.539	2.537	2.534	2.526	2.523	2.518						
	18.48	18.54	18.66	23.77	24.28	25.27						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.896	9.147	9.399	9.701	9.956	10.215						
20	4-BROMOBUTYRIC ACID			C <sub>4</sub> H <sub>7</sub> BrO <sub>2</sub>			pHL			3.00	3.25	3.50
	-1	34.4	4.585	167.00			RE	9.113	7.670	6.586		
							t	24.13	22.87	22.01		
							Z	0.250	0.297	0.347		
							DHS	4.086	4.190	4.288		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	5.643	4.802	4.224	3.839	3.456	3.116	3.025	2.809	2.643	2.529	2.473	
	21.34	20.84	18.20	18.04	17.90	17.80	20.28	20.22	20.19	17.88	17.87	
	0.407	0.480	0.551	0.607	0.677	0.753	0.776	0.837	0.891	0.938	0.960	
	4.396	4.523	4.643	4.743	4.873	5.034	5.090	5.261	5.463	5.728	5.925	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.433	2.407	2.383	2.375	2.369	2.365	2.381	2.379	2.377	2.375	2.378	
	17.86	17.86	24.59	24.58	24.58	24.57	17.82	17.83	17.83	17.84	17.86	
	0.976	0.986	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	
	6.150	6.389	6.695	6.937	7.184	7.433	7.632	7.881	8.131	8.381	8.632	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3					
	2.376	2.374	2.372	2.365	2.362	2.358						
	17.89	17.95	18.06	22.80	23.24	24.08						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.883	9.133	9.385	9.682	9.936	10.195						
21	o-BROMOPHENYLACETIC ACID			C <sub>8</sub> H <sub>7</sub> BrO <sub>2</sub>			pHL			3.00	3.25	3.50
	-1	31.4	4.054	215.05			RE	6.292	5.416	4.757		
							t	26.31	24.65	23.51		
							Z	0.402	0.468	0.535		
							DHS	3.857	3.973	4.087		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	4.195	3.715	3.529	3.284	3.067	2.897	2.868	2.766	2.698	2.673	2.650	
	22.65	22.04	19.20	18.96	18.77	18.63	21.39	21.32	21.27	18.74	18.72	
	0.609	0.690	0.732	0.788	0.846	0.897	0.906	0.940	0.964	0.979	0.988	
	4.217	4.370	4.457	4.591	4.760	4.960	5.002	5.213	5.443	5.684	5.914	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.634	2.624	2.609	2.605	2.602	2.599	2.620	2.619	2.617	2.614	2.618	
	18.71	18.71	26.11	26.11	26.10	26.09	18.67	18.67	18.68	18.69	18.72	
	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	
	6.156	6.402	6.711	6.959	7.208	7.457	7.650	7.900	8.150	8.400	8.652	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2					
	2.616	2.613	2.610	2.602	2.598	2.593						
	18.75	18.82	18.95	24.23	24.78	25.85						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.903	9.153	9.405	9.709	9.965	10.225						

22	2-BROMOPROPIONIC ACID				C <sub>3</sub> H <sub>5</sub> BrO <sub>2</sub>		pHL	3.00	3.25	3.50
	-1	33.4	2.975	152.98			RE	3.149	2.927	2.769
							t	27.05	24.69	23.12
							Z	0.768	0.828	0.877
							pHS	3.463	3.625	3.793
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	2.651	2.568	2.573	2.527	2.495	2.474	2.470	2.457	2.449	2.459
	22.03	21.32	18.79	18.43	18.20	18.06	20.66	20.58	20.53	18.15
	0.917	0.948	0.951	0.969	0.981	0.989	0.990	0.994	0.997	0.998
	3.983	4.197	4.223	4.427	4.654	4.893	4.921	5.163	5.410	5.642
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.453	2.450	2.441	2.440	2.438	2.436	2.454	2.453	2.451	2.450
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.137	6.387	6.691	6.940	7.190	7.440	7.637	7.887	8.137	8.387
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3			
	2.451	2.449	2.446	2.439	2.436	2.432				
	18.16	18.22	18.33	23.25	23.72	24.62				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.889	9.140	9.391	9.691	9.945	10.204				
23	5-BROMOVALERIC ACID				C <sub>5</sub> H <sub>9</sub> BrO <sub>2</sub>		pHL	3.00	3.25	3.50
	-1	32.3	4.721	181.03			RE	10.913	9.150	7.825
							t	25.06	23.74	22.83
							Z	0.222	0.265	0.311
							pHS	4.157	4.258	4.354
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	6.670	5.635	4.888	4.418	3.947	3.521	3.393	3.120	2.905	2.745
	22.12	21.60	18.77	18.61	18.47	18.36	21.01	20.95	20.92	18.46
	0.366	0.435	0.507	0.562	0.631	0.710	0.737	0.804	0.865	0.923
	4.459	4.582	4.704	4.800	4.923	5.077	5.136	5.299	5.493	5.761
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.618	2.583	2.550	2.539	2.532	2.526	2.545	2.543	2.540	2.538
	18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42
	0.968	0.981	0.991	0.995	0.997	0.998	0.999	0.999	1.000	1.000
	6.169	6.405	6.716	6.955	7.202	7.450	7.646	7.895	8.144	8.394
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3			
	2.539	2.537	2.534	2.526	2.523	2.518				
	18.48	18.54	18.66	23.77	24.28	25.27				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.896	9.147	9.399	9.701	9.956	10.215				
24	o-t-BUTYLBenzoic ACID				C <sub>11</sub> H <sub>14</sub> O <sub>2</sub>		pHL	3.00	3.25	3.50
	-1	23.2	3.535	178.23			RE	5.717	5.137	4.704
							t	34.09	31.20	29.25
							Z	0.614	0.685	0.751
							pHS	3.709	3.845	3.985
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	4.352	4.076	4.062	3.909	3.791	3.711	3.693	3.647	3.617	3.634
	27.83	26.87	23.10	22.65	22.33	22.13	25.94	25.83	25.76	22.29
	0.814	0.872	0.883	0.919	0.948	0.969	0.971	0.983	0.990	0.994
	4.147	4.336	4.378	4.554	4.761	4.990	5.030	5.265	5.509	5.733
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	3.615	3.607	3.581	3.578	3.574	3.570	3.615	3.612	3.609	3.604
	22.25	22.24	32.42	32.41	32.39	32.38	22.20	22.21	22.22	22.24
	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.224	6.473	6.799	7.048	7.298	7.547	7.723	7.973	8.223	8.473
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11, 1			
	3.607	3.602	3.596	3.575	3.565	3.551				
	22.36	22.49	22.73	30.36	31.65	34.47				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.978	9.229	9.482	9.813	10.075	10.350				

25	p-t-BUTYLBNZOIC ACID -1	23.2	4.400	C11H14O2 178.23	pHL RE t Z pHS	3.00 10.773 32.41 0.318 4.049	3.25 9.164 30.15 0.376 4.158	3.50 7.940 28.63 0.435 4.264			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	6.882	5.958	5.554	5.080	4.640	4.278	4.193	3.969	3.813	3.746	3.691
	27.50	26.69	22.80	22.51	22.27	22.10	25.88	25.80	25.74	22.28	22.26
	0.505	0.586	0.636	0.697	0.766	0.834	0.849	0.899	0.937	0.963	0.977
	4.383	4.524	4.613	4.732	4.884	5.067	5.120	5.317	5.537	5.775	5.995
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.654	3.630	3.592	3.584	3.577	3.572	3.616	3.613	3.609	3.605	3.611
	22.25	22.24	32.42	32.40	32.39	32.38	22.20	22.21	22.22	22.24	22.28
	0.987	0.992	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000
	6.232	6.477	6.804	7.050	7.298	7.548	7.723	7.973	8.223	8.473	8.727
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1				
	3.607	3.602	3.596	3.575	3.565	3.551					
	22.36	22.49	22.73	30.36	31.65	34.47					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.978	9.229	9.482	9.813	10.075	10.350					
26	BUTYRIC ACID (S) -1	33.8	4.820	C4H8O2 88.11	pHL RE t Z pHS	3.00 11.526 24.23 0.200 4.200	3.25 9.640 23.01 0.240 4.299	3.50 8.224 22.18 0.282 4.392			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	6.987	5.874	4.999	4.507	4.007	3.546	3.394	3.097	2.856	2.659	2.578
	21.53	21.03	18.33	18.18	18.06	17.95	20.47	20.42	20.38	18.04	18.03
	0.333	0.397	0.471	0.524	0.592	0.671	0.702	0.771	0.838	0.908	0.937
	4.495	4.614	4.743	4.833	4.950	5.097	5.159	5.313	5.499	5.775	5.953
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.516	2.474	2.438	2.425	2.417	2.411	2.427	2.424	2.422	2.420	2.422
	18.02	18.02	24.87	24.86	24.86	24.85	17.98	17.98	17.99	18.00	18.02
	0.960	0.976	0.988	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000
	6.166	6.399	6.708	6.945	7.190	7.438	7.637	7.885	8.135	8.384	8.636
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1				
	2.421	2.418	2.416	2.409	2.406	2.402					
	18.05	18.11	18.22	23.07	23.52	24.40					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.887	9.137	9.388	9.687	9.942	10.200					
27	CACODYLIC ACID (S) -1	29.9	6.184	C2H7AsO2 138.00	pHL RE t Z pHS	3.00 53.330 25.77 0.048 4.877	3.25 43.793 24.52 0.058 4.967	3.50 36.666 23.67 0.070 5.049			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	30.417	24.720	18.467	16.251	13.887	11.544	10.054	8.598	7.202	4.876	4.509
	23.00	22.48	19.41	19.30	19.19	19.10	21.87	21.84	21.81	19.21	19.21
	0.084	0.104	0.141	0.160	0.188	0.226	0.261	0.306	0.367	0.552	0.598
	5.137	5.236	5.382	5.447	5.530	5.631	5.712	5.807	5.924	6.246	6.327
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	4.097	3.701	3.170	3.042	2.932	2.851	2.832	2.801	2.781	2.767	2.765
	19.20	19.20	26.95	26.95	26.96	26.96	19.16	19.17	19.17	19.19	19.21
	0.661	0.734	0.859	0.896	0.931	0.957	0.973	0.984	0.991	0.995	0.997
	6.442	6.591	6.934	7.085	7.278	7.498	7.704	7.929	8.169	8.414	8.666
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10				
	2.759	2.754	2.750	2.739	2.735	2.728					
	19.25	19.33	19.47	25.06	25.68	26.92					
	0.998	0.999	0.999	1.000	1.000	1.000					
	8.915	9.165	9.417	9.725	9.981	10.243					

28	CAPRIC ACID -1	22.1	5.000	C10H20O2 172.27	pHL RE t Z pHS	3.00 19.575 32.90 0.181 4.330	3.25 16.318 30.75 0.218 4.430	3.50 13.849 29.30 0.258 4.524
						5.00 5.004 26.59 0.744 5.433	5.25 4.571 26.56 0.817 5.618	5.50 4.246 22.95 0.891 5.878
						5.75 4.095 22.94 0.925 6.056	5.50 4.246 22.95 0.891 5.878	5.75 4.095 22.94 0.925 6.056
						6.00 3.978 22.93 0.953 6.269	6.25 3.900 22.92 0.972 6.501	6.50 3.817 33.63 0.987 6.833
						6.75 3.793 33.62 0.992 7.071	7.00 3.777 33.61 0.997 7.316	7.25 3.766 33.60 0.997 7.564
						7.50 5.540 26.65 0.669 5.278	7.75 3.813 26.59 0.744 5.433	8.00 3.803 22.91 0.999 8.236
						8.25 3.797 22.98 1.000 8.740	8.25 3.797 22.93 1.000 8.486	8.50 3.804 22.98 1.000 8.740
						8.75 3.800 23.06 1.000 8.991	9.00 3.794 23.21 1.000 9.243	9.25 3.787 23.49 1.000 9.496
						9.50 3.762 31.60 1.000 9.832	9.75 3.752 33.11 1.000 10.096	10.00 3.735 36.50 1.000 10.375
						(Ref.) : 10 , 12		
29	CAPROIC ACID (S) -1	30.2	4.857	C6H12O2 116.16	pHL RE t Z pHS	3.00 13.156 26.15 0.197 4.228	3.25 10.992 24.73 0.236 4.327	3.50 9.364 23.76 0.278 4.421
						5.00 3.503 21.79 0.767 5.341	5.25 3.224 21.75 0.835 5.527	5.50 3.003 19.12 0.905 5.798
						5.75 3.845 21.84 0.696 5.186	5.50 3.003 19.12 0.905 5.798	5.75 3.845 21.84 0.696 5.186
						6.00 2.837 19.10 0.959 6.191	6.25 2.788 19.10 0.976 6.424	6.50 2.743 26.81 0.988 6.738
						6.75 2.729 26.80 0.993 6.976	7.00 2.719 26.79 0.996 7.221	7.25 2.712 26.79 0.998 7.469
						7.50 2.734 19.06 0.999 7.661	7.75 2.731 19.06 0.999 7.910	8.00 2.728 19.07 1.000 8.159
						8.25 2.725 19.09 1.000 8.409	8.25 2.725 19.09 1.000 8.409	8.50 2.729 19.11 1.000 8.661
						8.75 2.726 19.15 1.000 8.912	9.00 2.723 19.23 1.000 9.162	9.25 2.720 19.36 1.000 9.414
						9.50 2.710 24.89 1.000 9.721	9.75 2.706 25.49 1.000 9.977	10.00 2.700 26.69 1.000 10.239
						(Ref.) : 3 , 1		
30	CAPRYLIC ACID -1	27.4	4.894	C8H16O2 144.21	pHL RE t Z pHS	3.00 14.801 28.02 0.193 4.255	3.25 12.356 26.40 0.232 4.355	3.50 10.515 25.30 0.273 4.449
						5.00 3.902 23.17 0.762 5.367	5.25 3.586 23.08 0.831 5.553	5.50 3.340 20.17 0.902 5.820
						5.75 4.293 23.11 0.690 5.211	5.50 3.340 20.17 0.902 5.820	5.75 4.293 23.11 0.690 5.211
						6.00 3.149 20.15 0.958 6.213	6.25 3.093 20.15 0.975 6.446	6.50 3.039 28.69 0.988 6.766
						6.75 3.022 28.68 0.993 7.004	7.00 3.011 28.67 0.996 7.250	7.25 3.003 28.67 0.998 7.498
						7.50 3.031 20.11 0.999 7.684	7.75 3.028 20.12 0.999 7.932	8.00 3.024 20.12 1.000 8.182
						8.25 3.020 20.14 1.000 8.431	8.25 3.020 20.14 1.000 8.431	8.50 3.025 20.17 1.000 8.684
						8.75 3.022 20.22 1.000 8.935	9.00 3.018 20.31 1.000 9.186	9.25 3.014 20.48 1.000 9.438
						9.50 3.001 26.68 1.000 9.753	9.75 2.995 27.47 1.000 10.011	10.00 2.988 29.08 1.000 10.276
						(Ref.) : 10 , 7		

31	CARBONIC ACID				H2CO3			pHL	3.00	3.25	3.50
	-1	46.1	6.352		62.03		RE	43.836	36.281	30.593	
	-2	71.8	10.329				t	19.64	19.01	18.56	
							Z	0.038	0.045	0.054	
							pHS	4.934	5.020	5.097	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	25.532	20.840	14.611	12.986	11.188	9.343	7.956	6.854	5.745	3.518	
	18.18	17.88	15.88	15.82	15.76	15.70	17.46	17.44	17.42	15.72	
	0.065	0.079	0.114	0.128	0.149	0.179	0.211	0.245	0.294	0.487	
	5.180	5.275	5.446	5.504	5.579	5.672	5.759	5.843	5.947	6.299	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.966	2.653	2.146	2.051	1.955	1.875	1.823	1.793	1.770	1.753	
	15.71	15.70	20.61	20.61	20.62	20.63	15.67	15.70	15.76	15.87	
	0.579	0.650	0.808	0.846	0.889	0.928	0.960	0.977	0.991	1.004	
	6.459	6.586	6.937	7.053	7.213	7.412	7.657	7.862	8.092	8.334	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1, 4				
	1.720	1.694	1.655	1.589	1.519	1.443					
	16.37	16.90	17.75	22.86	24.69	26.87					
	1.039	1.070	1.120	1.210	1.317	1.447					
	8.839	9.088	9.338	9.625	9.861	10.097					
32	CHLORIC ACID (S)			HClO3			pHL	3.00	3.25	3.50	
	-1	67.0	-2.700		84.46		RE	1.186	1.186	1.186	
							t	19.42	17.43	16.28	
							Z	1.000	1.000	1.000	
							pHS	3.052	3.293	3.534	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	1.186	1.185	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	
	15.63	15.25	14.06	13.85	13.73	13.66	14.92	14.88	14.86	13.70	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	3.778	4.026	4.027	4.272	4.521	4.770	4.775	5.024	5.274	5.520	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	1.186	1.186	1.186	1.186	1.185	1.185	1.186	1.186	1.186	1.186	
	13.69	13.69	17.05	17.05	17.05	17.05	13.67	13.67	13.67	13.68	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.020	6.270	6.530	6.780	7.030	7.280	7.520	7.770	8.020	8.270	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1, 4				
	1.186	1.186	1.186	1.186	1.185	1.185					
	13.69	13.71	13.75	16.03	16.13	16.32					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.770	9.020	9.270	9.528	9.779	10.029					
33	2-CHLORO-3-OH-BUTYRIC ACID			C4H7ClO3			pHL	3.00	3.25	3.50	
	-1	34.4	2.602		138.55		RE	2.721	2.600	2.518	
							t	27.09	24.49	22.81	
							Z	0.866	0.907	0.938	
							pHS	3.377	3.557	3.743	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	2.460	2.421	2.431	2.409	2.394	2.384	2.381	2.375	2.370	2.381	
	21.68	20.97	18.53	18.16	17.93	17.79	20.31	20.24	20.19	17.88	
	0.960	0.976	0.977	0.986	0.992	0.995	0.996	0.997	0.999	0.999	
	3.949	4.175	4.189	4.406	4.640	4.884	4.909	5.154	5.402	5.634	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.377	2.375	2.367	2.365	2.364	2.362	2.379	2.378	2.376	2.375	
	17.86	17.86	24.59	24.58	24.58	24.57	17.82	17.83	17.83	17.84	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.131	6.381	6.682	6.932	7.182	7.432	7.630	7.881	8.131	8.381	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.376	2.374	2.372	2.365	2.362	2.358					
	17.89	17.95	18.06	22.80	23.24	24.08					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.883	9.133	9.385	9.682	9.936	10.195					

34	CHLOROACETIC ACID			2.865	C2H3C102			pHL RE t Z pHS	3.00 2.356 22.92 0.778 3.373	3.25 2.189 21.04 17.82 3.542	3.50 2.073 19.81 0.886 3.717					
	-1	43.7			94.50											
	3.75	4.00	4.00		4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	1.989	1.931	1.932		1.900	1.878	1.864					1.863	1.855	1.849	1.853	1.851
	18.96	18.42	16.51		16.23	16.06	15.95					17.91	17.85	17.82	16.02	16.01
	0.924	0.953	0.956		0.972	0.983	0.990					0.991	0.995	0.997	0.998	0.999
	3.914	4.133	4.159		4.369	4.599	4.841					4.860	5.104	5.351	5.589	5.836
	6.00	6.25	6.50		6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	1.850	1.848	1.845		1.844	1.843	1.842					1.850	1.850	1.849	1.848	1.850
	16.00	16.00	21.24		21.24	21.24	21.24					15.97	15.97	15.98	15.99	15.99
	0.999	1.000	1.000		1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
	6.085	6.335	6.621		6.871	7.121	7.371					7.585	7.835	8.085	8.335	8.586
	8.75	9.00	9.25		9.50	9.75	10.00					(Ref.) : 1				
1.849	1.848	1.846	1.844	1.842	1.840											
16.02	16.05	16.12	19.75	20.00	20.46											
1.000	1.000	1.000	1.000	1.000	1.000											
8.836	9.086	9.337	9.619	9.871	10.125											
35	m-CHLOROBENZOIC ACID			3.830	C7H5C102			pHL RE t Z pHS	3.00 5.244 26.31 0.475 3.760	3.25 4.571 24.55 0.547 3.883	3.50 4.066 23.34 0.617 4.007					
	-1	32.0			156.57											
	3.75	4.00	4.00		4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	3.642	3.290	3.191		3.006	2.851	2.737					2.720	2.652	2.609	2.600	2.585
	22.45	21.81	19.06		18.79	18.59	18.45					21.16	21.09	21.04	18.55	18.54
	0.691	0.767	0.796		0.847	0.895	0.933					0.938	0.962	0.978	0.987	0.992
	4.147	4.314	4.388		4.537	4.722	4.935					4.972	5.194	5.431	5.668	5.905
	6.00	6.25	6.50		6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	2.575	2.568	2.555		2.553	2.550	2.548					2.568	2.567	2.565	2.563	2.566
	18.53	18.52	25.78		25.78	25.77	25.77					18.49	18.49	18.50	18.51	18.53
	0.996	0.998	0.999		0.999	1.000	1.000					1.000	1.000	1.000	1.000	1.000
	6.149	6.397	6.704		6.953	7.202	7.452					7.646	7.896	8.146	8.396	8.648
	8.75	9.00	9.25		9.50	9.75	10.00					(Ref.) : 2 , 1				
2.564	2.562	2.559	2.551	2.547	2.542											
18.57	18.64	18.76	23.92	24.44	25.46											
1.000	1.000	1.000	1.000	1.000	1.000											
8.898	9.149	9.401	9.704	9.959	10.219											
36	o-CHLOROBENZOIC ACID			2.943	C7H5C102			pHL RE t Z pHS	3.00 3.077 26.89 0.777 3.452	3.25 2.866 24.53 0.836 3.615	3.50 2.717 22.96 0.883 3.785					
	-1	33.8			156.57											
	3.75	4.00	4.00		4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	2.606	2.528	2.534		2.491	2.461	2.441					2.437	2.426	2.418	2.428	2.425
	21.88	21.17	18.67		18.32	18.09	17.95					20.52	20.44	20.39	18.04	18.03
	0.922	0.951	0.954		0.971	0.982	0.990					0.990	0.994	0.997	0.998	0.999
	3.977	4.193	4.217		4.423	4.650	4.890					4.917	5.160	5.407	5.639	5.886
	6.00	6.25	6.50		6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	2.422	2.419	2.411		2.409	2.408	2.406					2.424	2.422	2.421	2.419	2.422
	18.02	18.02	24.87		24.87	24.86	24.86					17.98	17.98	17.99	18.00	18.02
	0.999	1.000	1.000		1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
	6.135	6.384	6.688		6.937	7.187	7.437					7.634	7.884	8.134	8.384	8.636
	8.75	9.00	9.25		9.50	9.75	10.00					(Ref.) : 2 , 1				
2.420	2.418	2.416	2.409	2.406	2.402											
18.05	18.11	18.22	23.07	23.52	24.40											
1.000	1.000	1.000	1.000	1.000	1.000											
8.886	9.137	9.388	9.687	9.942	10.200											

37	p-CHLOROBENZOIC ACID				C7H5ClO2			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	33.4	3.977	156.57	5.625	4.857	4.280					
	3.75	4.00	4.00	4.25	4.50	4.75	4.75		5.00	5.25	5.50	5.75
	3.791	3.375	3.223	3.011	2.824	2.682	2.659		2.574	2.517	2.498	2.478
	21.84	21.26	18.60	18.37	18.18	18.06	20.64		20.57	20.53	18.15	18.14
	0.633	0.713	0.752	0.807	0.862	0.909	0.916		0.947	0.968	0.982	0.989
	4.183	4.340	4.426	4.563	4.736	4.940	4.980		5.194	5.426	5.667	5.899
	6.00	6.25	6.50	6.75	7.00	7.25	7.50		7.75	8.00	8.25	8.50
	2.466	2.457	2.445	2.442	2.439	2.437	2.455		2.453	2.452	2.450	2.453
	18.13	18.12	25.06	25.06	25.05	25.05	18.09		18.09	18.10	18.11	18.13
	0.994	0.996	0.998	0.999	0.999	1.000	1.000		1.000	1.000	1.000	1.000
6.142	6.389	6.693	6.941	7.190	7.440	7.637	7.887	8.137	8.387	8.639		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1						
2.451	2.449	2.446	2.439	2.436	2.432							
18.16	18.22	18.33	23.25	23.72	24.62							
1.000	1.000	1.000	1.000	1.000	1.000							
8.889	9.140	9.391	9.691	9.945	10.204							
38	2-CHLOROBUTYRIC ACID				C4H7ClO2			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	34.4	2.839	122.55	2.916	2.738	2.613					
	3.75	4.00	4.00	4.25	4.50	4.75	4.75		5.00	5.25	5.50	5.75
	2.522	2.459	2.467	2.431	2.407	2.392	2.388		2.379	2.373	2.382	2.380
	21.66	20.96	18.52	18.16	17.93	17.79	20.31		20.24	20.19	17.88	17.87
	0.936	0.960	0.962	0.976	0.986	0.992	0.992		0.996	0.998	0.999	0.999
	3.964	4.183	4.205	4.414	4.644	4.886	4.912		5.155	5.403	5.635	5.882
	6.00	6.25	6.50	6.75	7.00	7.25	7.50		7.75	8.00	8.25	8.50
	2.377	2.375	2.367	2.365	2.364	2.362	2.379		2.378	2.376	2.375	2.378
	17.86	17.86	24.59	24.58	24.58	24.57	17.82		17.83	17.83	17.84	17.86
	1.000	1.000	1.000	1.000	1.000	1.000	1.000		1.000	1.000	1.000	1.000
6.131	6.381	6.682	6.932	7.182	7.432	7.631	7.881	8.131	8.381	8.632		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3						
2.376	2.374	2.372	2.365	2.362	2.358							
17.89	17.95	18.06	22.80	23.24	24.08							
1.000	1.000	1.000	1.000	1.000	1.000							
8.883	9.133	9.385	9.682	9.936	10.195							
39	3-CHLOROBUTYRIC ACID				C4H7ClO2			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	34.4	4.056	122.55	5.824	5.006	4.391					
	3.75	4.00	4.00	4.25	4.50	4.75	4.75		5.00	5.25	5.50	5.75
	3.867	3.418	3.230	3.005	2.802	2.643	2.617		2.521	2.456	2.430	2.408
	21.45	20.89	18.30	18.09	17.92	17.79	20.30		20.23	20.19	17.88	17.87
	0.601	0.682	0.727	0.783	0.842	0.894	0.902		0.937	0.962	0.978	0.987
	4.203	4.355	4.447	4.579	4.745	4.943	4.984		5.193	5.422	5.667	5.895
	6.00	6.25	6.50	6.75	7.00	7.25	7.50		7.75	8.00	8.25	8.50
	2.394	2.384	2.371	2.368	2.365	2.363	2.380		2.378	2.377	2.375	2.378
	17.86	17.86	24.59	24.58	24.58	24.57	17.82		17.83	17.83	17.84	17.86
	0.992	0.996	0.998	0.999	0.999	1.000	1.000		1.000	1.000	1.000	1.000
6.137	6.383	6.686	6.934	7.182	7.432	7.631	7.881	8.131	8.381	8.632		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3						
2.376	2.374	2.372	2.365	2.362	2.358							
17.89	17.95	18.06	22.80	23.24	24.08							
1.000	1.000	1.000	1.000	1.000	1.000							
8.883	9.133	9.385	9.682	9.936	10.195							

40	2-CHLOROCROTONIC ACID				C4H5ClO2			pH RE t Z DHS	3.00 3.225 25.70 0.704 3.499	3.25 2.947 23.63 0.773 3.652	3.50 2.746 22.24 0.831 3.811				
	-1	35.4	3.155	120.54											
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	2.592	2.479	2.476	2.414	2.369	2.340	2.336					2.319	2.308	2.315	2.311
	21.27	20.61	18.21	17.89	17.68	17.55	19.99					19.92	19.88	17.63	17.62
	0.882	0.923	0.929	0.953	0.971	0.983	0.984					0.991	0.995	0.997	0.998
	3.991	4.197	4.232	4.427	4.648	4.885	4.911					5.152	5.398	5.631	5.877
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	2.308	2.305	2.297	2.296	2.294	2.293	2.308					2.307	2.306	2.304	2.307
	17.61	17.61	24.14	24.14	24.13	24.13	17.57					17.58	17.58	17.59	17.61
	0.999	0.999	1.000	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000
	6.126	6.375	6.675	6.925	7.174	7.424	7.625					7.875	8.125	8.375	8.626
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3								
2.305	2.304	2.301	2.296	2.293	2.289										
17.64	17.70	17.79	22.39	22.80	23.57										
1.000	1.000	1.000	1.000	1.000	1.000										
8.877	9.127	9.379	9.674	9.928	10.186										
41	3-CHLOROCROTONIC ACID				C4H5ClO2			pH RE t Z DHS	3.00 4.865 24.52 0.461 3.753	3.25 4.227 22.98 0.532 3.875	3.50 3.750 21.93 0.602 3.997				
	-1	35.4	3.848	120.54											
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	3.348	3.013	2.905	2.732	2.585	2.475	2.459					2.394	2.352	2.340	2.326
	21.14	20.57	18.08	17.85	17.67	17.55	19.98					19.92	19.87	17.63	17.62
	0.676	0.754	0.787	0.838	0.887	0.928	0.933					0.958	0.975	0.986	0.992
	4.135	4.300	4.380	4.525	4.707	4.917	4.953					5.173	5.408	5.649	5.884
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	2.316	2.310	2.300	2.297	2.295	2.293	2.309					2.307	2.306	2.304	2.307
	17.61	17.61	24.14	24.14	24.13	24.13	17.57					17.58	17.58	17.59	17.61
	0.995	0.997	0.999	0.999	1.000	1.000	1.000					1.000	1.000	1.000	1.000
	6.129	6.376	6.677	6.925	7.175	7.424	7.625					7.875	8.125	8.375	8.626
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3								
2.305	2.304	2.301	2.296	2.293	2.289										
17.64	17.70	17.79	22.39	22.80	23.57										
1.000	1.000	1.000	1.000	1.000	1.000										
8.877	9.127	9.379	9.674	9.928	10.186										
42	CHLORODIBROMOACETIC ACID				C2HBr2ClO2			pH RE t Z DHS	3.00 2.235 26.84 0.995 3.264	3.25 2.231 23.91 0.997 3.474	3.50 2.228 22.11 0.998 3.686				
	-1	36.5	1.000	252.29											
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	2.226	2.225	2.234	2.233	2.232	2.230	2.228					2.227	2.225	2.235	2.234
	20.97	20.28	18.02	17.64	17.42	17.29	19.66					19.59	19.55	17.37	17.36
	0.999	0.999	0.999	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000
	3.911	4.148	4.152	4.382	4.623	4.869	4.892					5.139	5.388	5.620	5.869
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	2.233	2.231	2.224	2.224	2.222	2.221	2.235					2.234	2.233	2.231	2.234
	17.35	17.35	23.68	23.67	23.67	23.66	17.32					17.32	17.33	17.34	17.35
	1.000	1.000	1.000	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000
	6.119	6.368	6.666	6.916	7.166	7.416	7.619					7.869	8.119	8.369	8.620
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 12								
2.233	2.231	2.229	2.223	2.221	2.218										
17.38	17.43	17.52	21.96	22.34	23.06										
1.000	1.000	1.000	1.000	1.000	1.000										
8.870	9.121	9.372	9.665	9.919	10.176										



43	CHLORODIFLUOROACETIC ACID -1	38.6	1.000	C2HC1F2O2 130.48	pHL RE t Z pHS	3.00 2.109 25.94 0.995 3.244	3.25 2.105 23.13 0.997 3.456	3.50 2.102 21.40 0.998 3.671			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.100	2.099	2.107	2.106	2.105	2.103	2.102	2.100	2.099	2.107	2.106
	20.32	19.67	17.53	17.18	16.97	16.85	19.08	19.01	18.97	16.92	16.91
	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.897	4.135	4.139	4.370	4.611	4.858	4.879	5.127	5.376	5.609	5.858
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.105	2.104	2.098	2.098	2.097	2.095	2.107	2.107	2.106	2.104	2.106
	16.91	16.90	22.87	22.86	22.86	22.86	16.87	16.87	16.88	16.89	16.90
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.108	6.358	6.652	6.902	7.152	7.401	7.608	7.858	8.108	8.358	8.609
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 12				
	2.105	2.104	2.102	2.098	2.095	2.093					
	16.93	16.97	17.06	21.22	21.56	22.18					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.859	9.110	9.361	9.650	9.903	10.159					
44	2-CHLOROISOCROTONIC ACID -1	35.4	2.810	C4H5ClO2 120.54	pHL RE t Z pHS	3.00 2.812 26.28 0.811 3.409	3.25 2.643 23.92 0.865 3.580	3.50 2.526 22.36 0.906 3.757			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.441	2.382	2.390	2.357	2.334	2.320	2.317	2.308	2.302	2.311	2.309
	21.30	20.62	18.25	17.90	17.68	17.55	19.99	19.92	19.88	17.63	17.62
	0.938	0.962	0.964	0.977	0.987	0.992	0.993	0.996	0.998	0.999	0.999
	3.955	4.175	4.196	4.407	4.638	4.879	4.904	5.149	5.396	5.629	5.876
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.307	2.304	2.297	2.296	2.294	2.292	2.308	2.307	2.306	2.304	2.307
	17.61	17.61	24.14	24.14	24.13	24.13	17.57	17.58	17.58	17.59	17.61
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.125	6.375	6.675	6.924	7.174	7.424	7.625	7.875	8.125	8.375	8.626
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.305	2.304	2.301	2.296	2.293	2.289					
	17.64	17.70	17.79	22.39	22.80	23.57					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.877	9.127	9.379	9.674	9.928	10.186					
45	m-CHLOROPHENOL -1	33.4	9.023	C6H5ClO 128.56	pHL RE t Z pHS	3.00 23.86 0.002 6.286	3.25 22.87 0.002 6.373	3.50 22.17 0.003 6.451			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	21.62	21.18	18.44	18.35	18.27	18.20	20.61	20.58	20.56	18.30	18.30
	0.003	0.004	0.006	0.007	0.008	0.010	0.012	0.014	0.017	0.037	0.041
	6.534	6.626	6.786	6.843	6.914	7.001	7.089	7.164	7.255	7.602	7.644
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	48.789	41.096	18.793	17.288	15.352	13.145	7.802	7.185	6.417	5.579	4.249
	18.29	18.29	24.92	24.93	24.94	24.95	18.27	18.27	18.28	18.29	18.33
	0.047	0.056	0.123	0.134	0.151	0.176	0.302	0.328	0.369	0.425	0.564
	7.704	7.782	8.155	8.197	8.257	8.337	8.637	8.689	8.765	8.866	9.106
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1				
	3.850	3.456	3.119	2.800	2.659	2.562					
	18.37	18.43	18.54	23.51	23.98	24.91					
	0.625	0.698	0.776	0.866	0.912	0.947					
	9.213	9.354	9.527	9.798	10.005	10.237					

46	o-CHLOROPHENOL			C6H5C10			pHL	3.00	3.25	3.50	
	-1	33.4	8.477	128.56			RE	□□□□□□	□□□□□□	□□□□□□	
							t	23.80	22.80	22.10	
							Z	0.003	0.004	0.005	
							pHS	6.013	6.099	6.177	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□
	21.54	21.11	18.37	18.28	18.20	18.13	20.53	88.132	71.708	33.661	30.647
	0.006	0.008	0.011	0.012	0.015	0.018	0.022	0.026	0.032	0.068	0.075
	6.260	6.353	6.513	6.569	6.641	6.729	6.816	6.892	6.984	7.330	7.374
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	26.879	22.697	11.020	10.152	9.048	7.807	5.171	4.789	4.330	3.852	3.255
	18.21	18.21	24.87	24.88	24.89	24.90	18.17	18.17	18.17	18.18	18.20
0.085	0.101	0.211	0.230	0.258	0.300	0.461	0.499	0.553	0.624	0.744	
7.435	7.516	7.887	7.933	7.999	8.088	8.382	8.447	8.540	8.666	8.907	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1					
3.026	2.826	2.678	2.559	2.506	2.471						
18.23	18.29	18.40	23.33	23.80	24.70						
0.803	0.861	0.910	0.951	0.971	0.983						
9.051	9.232	9.443	9.729	9.964	10.214						
47	p-CHLOROPHENOL			C6H5C10			pHL	3.00	3.25	3.50	
	-1	33.4	9.378	128.60			RE	□□□□□□	□□□□□□	□□□□□□	
							t	23.98	23.00	22.31	
							Z	0.001	0.001	0.002	
							pHS	6.465	6.552	6.630	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□	□□□□□□
	21.76	21.32	18.56	18.48	18.40	18.33	20.74	20.72	20.70	90.705	82.548
	0.002	0.003	0.004	0.004	0.005	0.006	0.008	0.009	0.011	0.025	0.028
	6.712	6.805	6.965	7.022	7.093	7.179	7.267	7.342	7.432	7.781	7.822
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	72.299	60.855	27.121	24.943	22.127	18.897	10.628	9.768	8.685	7.481	5.343
	18.43	18.42	25.07	25.07	25.08	25.10	18.42	18.43	18.44	18.45	18.52
0.031	0.037	0.085	0.092	0.104	0.122	0.220	0.240	0.270	0.315	0.445	
7.881	7.959	8.332	8.372	8.430	8.507	8.809	8.857	8.925	9.017	9.256	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1					
4.788	4.211	3.687	3.120	2.884	2.705						
18.56	18.63	18.75	23.80	24.30	25.26						
0.498	0.569	0.652	0.773	0.838	0.894						
9.347	9.468	9.618	9.878	10.059	10.271						
48	p-CHLOROPHENYLACETIC ACID			C8H7C102			pHL	3.00	3.25	3.50	
	-1	34.5	4.190	170.60			RE	6.462	5.519	4.810	
							t	24.48	23.08	22.12	
							Z	0.354	0.416	0.478	
							pHS	3.905	4.017	4.125	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	4.202	3.673	3.414	3.155	2.914	2.718	2.682	2.562	2.479	2.439	2.411
	21.38	20.84	18.24	18.05	17.89	17.77	20.26	20.20	20.16	17.86	17.84
	0.550	0.631	0.684	0.742	0.805	0.865	0.876	0.919	0.950	0.971	0.982
	4.247	4.392	4.493	4.615	4.771	4.960	5.005	5.205	5.429	5.677	5.900
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.392	2.380	2.366	2.362	2.359	2.356	2.372	2.371	2.370	2.367	2.370
	17.84	17.83	24.54	24.54	24.53	24.53	17.80	17.80	17.81	17.82	17.83
0.990	0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	
6.138	6.384	6.687	6.933	7.182	7.431	7.630	7.880	8.130	8.380	8.632	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2					
2.369	2.367	2.364	2.358	2.355	2.351						
17.87	17.93	18.03	22.76	23.20	24.02						
1.000	1.000	1.000	1.000	1.000	1.000						
8.882	9.133	9.384	9.681	9.936	10.194						

49	2-CHLOROPROPIONIC -1	36.9	ACID 2.796		C3H5ClO2 108.52			pHL RE t Z DHS	3.00 2.692 25.60 0.812 3.396	3.25 2.530 23.32 0.865 3.567	3.50 2.418 21.82 0.906 3.746
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.337	2.281	2.287	2.256	2.234	2.221	2.218	2.210	2.204	2.212	2.210
	20.80	20.15	17.88	17.54	17.33	17.20	19.54	19.47	19.43	17.28	17.27
	0.939	0.962	0.964	0.978	0.987	0.992	0.993	0.996	0.998	0.999	0.999
	3.945	4.165	4.186	4.398	4.629	4.871	4.895	5.139	5.387	5.620	5.868
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.208	2.206	2.200	2.199	2.197	2.195	2.210	2.209	2.208	2.206	2.208
	17.26	17.26	23.52	23.51	23.51	23.50	17.23	17.23	17.24	17.25	17.26
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.117	6.366	6.664	6.913	7.163	7.413	7.616	7.866	8.116	8.366	8.618
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 3				
	2.207	2.205	2.203	2.198	2.196	2.193					
	17.29	17.34	17.43	21.82	22.18	22.88					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.868	9.119	9.370	9.662	9.916	10.173					
50	3-CHLOROPROPIONIC -1	36.9	ACID 3.867		C3H5ClO2 108.52			pHL RE t Z DHS	3.00 4.756 23.82 0.452 3.756	3.25 4.125 22.38 0.522 3.877	3.50 3.653 21.39 0.592 3.997
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.255	2.922	2.806	2.636	2.489	2.379	2.364	2.299	2.256	2.242	2.227
	20.64	20.10	17.71	17.49	17.32	17.20	19.53	19.47	19.43	17.28	17.27
	0.666	0.744	0.780	0.831	0.882	0.924	0.929	0.956	0.974	0.985	0.991
	4.134	4.297	4.380	4.524	4.703	4.911	4.947	5.165	5.400	5.643	5.877
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.218	2.212	2.202	2.200	2.198	2.196	2.210	2.209	2.208	2.206	2.208
	17.27	17.26	23.51	23.51	23.51	23.50	17.23	17.23	17.24	17.25	17.26
	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.121	6.368	6.666	6.914	7.164	7.413	7.617	7.866	8.116	8.367	8.618
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.207	2.205	2.203	2.198	2.196	2.193					
	17.29	17.34	17.43	21.82	22.18	22.88					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.868	9.119	9.370	9.662	9.916	10.173					
51	CHLOROUS ACID -1	53.9	1.960		HC102 68.46			pHL RE t Z DHS	3.00 1.566 21.27 0.946 3.166	3.25 1.534 19.19 0.967 3.380	3.50 1.514 17.93 0.980 3.598
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.501	1.493	1.496	1.492	1.489	1.487	1.487	1.485	1.484	1.487	1.487
	17.15	16.69	15.18	14.93	14.78	14.69	16.27	16.22	16.20	14.74	14.74
	0.988	0.993	0.993	0.996	0.998	0.999	0.999	0.999	1.000	1.000	1.000
	3.828	4.068	4.075	4.310	4.554	4.801	4.812	5.061	5.310	5.552	5.801
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.486	1.485	1.484	1.484	1.483	1.483	1.487	1.486	1.486	1.486	1.486
	14.73	14.73	18.94	18.94	18.94	18.94	14.71	14.71	14.71	14.72	14.72
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.051	6.300	6.573	6.823	7.073	7.323	7.550	7.800	8.050	8.300	8.551
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 2 , 4				
	1.486	1.485	1.485	1.484	1.483	1.482					
	14.74	14.77	14.81	17.70	17.86	18.15					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.801	9.051	9.302	9.571	9.822	10.074					

52	5-CHLOROVALERIC ACID				C5H9ClO2			pH	3.00	3.25	3.50
	-1	32.3	4.697		136.58		RE	10.670	8.952	7.661	
							t	25.08	23.75	22.84	
							Z	0.227	0.271	0.318	
							pHS	4.145	4.247	4.343	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	6.536	5.529	4.812	4.354	3.894	3.481	3.359	3.095	2.887	2.736	
	22.13	21.60	18.78	18.62	18.47	18.36	21.01	20.95	20.92	18.46	
	0.374	0.444	0.515	0.571	0.640	0.718	0.745	0.811	0.871	0.926	
	4.449	4.573	4.694	4.791	4.915	5.071	5.130	5.294	5.490	5.756	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.615	2.581	2.549	2.539	2.532	2.526	2.545	2.543	2.540	2.538	
	18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42	
	0.970	0.982	0.991	0.995	0.997	0.998	0.999	0.999	1.000	1.000	
	6.168	6.405	6.715	6.955	7.202	7.450	7.646	7.895	8.144	8.394	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.539	2.537	2.534	2.526	2.523	2.518					
	18.48	18.54	18.66	23.77	24.28	25.27					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.896	9.147	9.399	9.701	9.956	10.215					
53	CHROMIC ACID			0.745	H2CrO4		pH	3.00	3.25	3.50	
	-1	59.3		6.490		118.01	RE	1.350	1.347	1.346	
	-2	81.1					t	20.55	18.43	17.20	
							Z	0.997	0.999	1.000	
							pHS	3.095	3.328	3.562	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	1.344	1.343	1.345	1.343	1.340	1.336	1.335	1.327	1.315	1.294	
	16.49	16.10	14.74	14.55	14.52	14.62	16.08	16.36	16.88	16.45	
	1.002	1.004	1.004	1.008	1.015	1.026	1.027	1.047	1.080	1.146	
	3.802	4.047	4.050	4.293	4.540	4.789	4.800	5.049	5.299	5.587	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	1.230	1.190	1.140	1.114	1.092	1.076	1.074	1.068	1.065	1.062	
	19.10	20.75	28.02	29.31	30.35	31.08	25.71	25.95	26.10	26.19	
	1.342	1.475	1.647	1.748	1.835	1.898	1.940	1.965	1.980	1.988	
	6.062	6.299	6.601	6.809	7.037	7.275	7.527	7.768	8.015	8.263	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 2				
	1.061	1.060	1.060	1.055	1.055	1.054					
	26.29	26.33	26.40	30.41	30.58	30.88					
	1.996	1.998	1.999	1.999	2.000	2.000					
	8.763	9.013	9.262	9.515	9.765	10.015					
54	CINNAMIC ACID			4.438	C9H8O2		pH	3.00	3.25	3.50	
	-1	28.3				148.16	RE	9.443	7.998	6.906	
							t	27.82	26.11	24.95	
							Z	0.296	0.350	0.407	
							pHS	4.040	4.147	4.250	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	5.962	5.130	4.685	4.278	3.890	3.562	3.484	3.279	3.131	3.052	
	24.07	23.43	20.23	20.01	19.83	19.69	22.75	22.68	22.64	19.82	
	0.473	0.552	0.611	0.671	0.740	0.811	0.828	0.882	0.924	0.956	
	4.366	4.501	4.604	4.716	4.860	5.036	5.088	5.276	5.491	5.739	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.966	2.943	2.916	2.909	2.903	2.899	2.926	2.924	2.921	2.918	
	19.79	19.79	28.04	28.04	28.03	28.02	19.75	19.75	19.76	19.78	
	0.984	0.991	0.995	0.997	0.999	0.999	0.999	1.000	1.000	1.000	
	6.186	6.429	6.745	6.990	7.238	7.487	7.674	7.924	8.174	8.424	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1				
	2.920	2.917	2.913	2.901	2.896	2.889					
	19.85	19.94	20.09	26.06	26.78	28.24					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.927	9.178	9.430	9.742	10.000	10.263					

55	cis-CINNAMIC ACID			C9H8O2				PHL	3.00	3.25	3.50
	-1	28.3	3.879	148.16			RE	6.035	5.258	4.673	
							t	28.66	26.63	25.26	
							Z	0.469	0.540	0.609	
							PHS	3.799	3.921	4.043	
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
4.181	3.771	3.662	3.444	3.261	3.125	3.103	3.023	2.972	2.963	2.945	
24.23	23.51	20.38	20.08	19.85	19.70	22.78	22.70	22.65	19.82	19.80	
0.683	0.760	0.789	0.841	0.890	0.930	0.935	0.960	0.977	0.986	0.992	
4.183	4.349	4.419	4.568	4.751	4.963	5.004	5.226	5.462	5.696	5.932	
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
2.933	2.925	2.907	2.904	2.900	2.897	2.925	2.923	2.921	2.918	2.923	
19.79	19.79	28.05	28.04	28.03	28.02	19.75	19.75	19.76	19.78	19.80	
0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
6.177	6.425	6.739	6.988	7.237	7.487	7.674	7.924	8.174	8.424	8.676	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1					
2.920	2.917	2.913	2.901	2.896	2.889						
19.85	19.94	20.09	26.06	26.78	28.24						
1.000	1.000	1.000	1.000	1.000	1.000						
8.927	9.178	9.430	9.742	10.000	10.263						
56	CITRACONIC ACID			C5H6O4				PHL	3.00	3.25	3.50
	-1	28.0	2.458	130.10			RE	3.215	3.113	3.041	
	-2	56.0	6.146				t	31.42	28.21	26.16	
							Z	0.910	0.941	0.964	
							PHS	3.419	3.602	3.790	
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
2.985	2.938	2.954	2.910	2.852	2.770	2.750	2.631	2.474	2.234	2.087	
24.82	24.05	21.03	20.76	20.80	21.16	24.40	25.14	26.20	25.14	26.17	
0.983	1.000	1.001	1.017	1.038	1.071	1.077	1.130	1.208	1.362	1.467	
3.997	4.224	4.240	4.458	4.692	4.934	4.974	5.212	5.447	5.772	5.956	
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
1.946	1.825	1.700	1.651	1.615	1.591	1.599	1.591	1.585	1.581	1.582	
27.17	28.03	37.63	37.99	38.24	38.39	29.67	29.73	29.77	29.80	29.83	
1.584	1.699	1.826	1.884	1.928	1.957	1.975	1.985	1.992	1.995	1.997	
6.156	6.370	6.680	6.883	7.110	7.349	7.577	7.819	8.066	8.315	8.566	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 2					
1.580	1.577	1.575	1.566	1.563	1.560						
29.86	29.92	30.01	36.07	36.40	37.03						
1.998	1.999	2.000	2.000	2.000	2.000						
8.815	9.065	9.315	9.587	9.838	10.091						
57	CITRIC ACID (S)			C6H8O7				PHL	3.00	3.25	3.50
	-1	28.7	3.128	192.13			RE	3.601	3.244	2.958	
	-2	54.7	4.761				t	31.06	28.91	27.81	
	-3	74.4	6.396				Z	0.796	0.889	0.984	
							PHS	3.529	3.683	3.842	
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
2.698	2.454	2.396	2.212	2.037	1.883	1.859	1.744	1.649	1.573	1.511	
27.49	27.90	25.15	26.00	27.08	28.28	31.80	33.01	34.33	32.98	34.50	
1.090	1.215	1.260	1.384	1.527	1.679	1.701	1.843	1.984	2.156	2.296	
4.021	4.220	4.286	4.465	4.664	4.878	4.912	5.126	5.354	5.632	5.849	
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
1.452	1.400	1.341	1.314	1.294	1.281	1.302	1.297	1.293	1.290	1.293	
36.15	37.73	49.56	50.49	51.13	51.52	41.22	41.35	41.43	41.48	41.53	
2.450	2.601	2.749	2.837	2.900	2.941	2.965	2.980	2.989	2.994	2.996	
6.078	6.314	6.599	6.825	7.063	7.307	7.546	7.793	8.041	8.291	8.541	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1					
1.291	1.289	1.286	1.273	1.270	1.266						
41.57	41.63	41.73	48.97	49.29	49.89						
2.998	2.999	2.999	3.000	3.000	3.000						
8.791	9.041	9.291	9.552	9.802	10.052						

58	CRESOL -1	33.4	7.377	C7H8O 108.14	pHL RE t Z pHS	3.00 □□□□□ 23.80 0.012 5.463	3.25 □□□□□ 22.79 0.015 5.550	3.50 □□□□□ 22.08 0.018 5.629			
	3.75 □□□□□	4.00 85.181	4.00 60.064	4.25 52.789	4.50 44.885	4.75 36.899	4.75 30.724	5.00 25.974	5.25 21.256	5.50 10.974	5.75 10.027
	21.52	21.08	18.34	18.25	18.17	18.09	20.52	20.49	20.47	18.18	18.17
	0.021	0.027	0.038	0.043	0.051	0.062	0.075	0.088	0.108	0.213	0.233
	5.712	5.806	5.964	6.022	6.096	6.186	6.272	6.351	6.447	6.790	6.841
	6.00 8.860	6.25 7.590	6.50 4.643	6.75 4.319	7.00 3.931	7.25 3.533	7.50 3.047	7.75 2.897	8.00 2.752	8.25 2.637	8.50 2.558
	18.17	18.16	24.94	24.95	24.96	24.98	18.10	18.11	18.11	18.12	18.14
	0.265	0.310	0.513	0.553	0.609	0.679	0.798	0.841	0.886	0.926	0.957
	6.912	7.007	7.372	7.441	7.540	7.672	7.938	8.063	8.232	8.436	8.685
	8.75 2.514	9.00 2.485	9.25 2.467	9.50 2.450	9.75 2.442	10.00 2.435	(Ref.) : 3				
	18.17	18.23	18.34	23.25	23.72	24.63					
	0.974	0.985	0.991	0.996	0.998	0.999					
	8.910	9.149	9.396	9.694	9.947	10.205					
59	m-CRESOL -1	33.4	7.770	C7H8O 108.14	pHL RE t Z pHS	3.00 □□□□□ 23.79 0.008 5.659	3.25 □□□□□ 22.78 0.009 5.746	3.50 □□□□□ 22.08 0.011 5.824			
	3.75 □□□□□	4.00 □□□□□	4.00 93.326	4.25 81.981	4.50 69.643	4.75 57.161	4.75 47.317	5.00 39.934	5.25 32.584	5.50 16.066	5.75 14.652
	21.52	21.09	18.34	18.26	18.17	18.10	20.52	20.49	20.47	18.19	18.18
	0.014	0.017	0.024	0.028	0.033	0.040	0.048	0.057	0.070	0.144	0.158
	5.908	6.001	6.160	6.217	6.290	6.378	6.465	6.543	6.637	6.981	7.028
	6.00 12.898	6.25 10.969	6.50 6.067	6.75 5.616	7.00 5.058	7.25 4.457	7.50 3.512	7.75 3.298	8.00 3.068	8.25 2.861	8.50 2.686
	18.18	18.18	24.90	24.91	24.93	24.94	18.12	18.12	18.12	18.13	18.15
	0.180	0.213	0.389	0.421	0.469	0.534	0.688	0.734	0.791	0.850	0.910
	7.095	7.182	7.551	7.608	7.690	7.802	8.081	8.178	8.314	8.488	8.735
	8.75 2.597	9.00 2.535	9.25 2.496	9.50 2.464	9.75 2.450	10.00 2.439	(Ref.) : 3				
	18.18	18.24	18.35	23.26	23.73	24.64					
	0.941	0.964	0.979	0.989	0.994	0.997					
	8.936	9.163	9.403	9.699	9.949	10.206					
60	p-CRESOL -1	33.4	7.959	C7H8O 108.14	pHL RE t Z pHS	3.00 □□□□□ 23.79 0.006 5.753	3.25 □□□□□ 22.78 0.008 5.840	3.50 □□□□□ 22.08 0.009 5.919			
	3.75 □□□□□	4.00 □□□□□	4.00 □□□□□	4.25 □□□□□	4.50 86.177	4.75 70.693	4.75 58.401	5.00 49.261	5.25 40.153	5.50 19.470	5.75 17.746
	21.52	21.09	18.34	18.26	18.18	18.10	20.52	20.49	20.47	18.19	18.19
	0.011	0.014	0.020	0.022	0.026	0.032	0.039	0.046	0.057	0.119	0.130
	6.002	6.095	6.254	6.311	6.384	6.472	6.559	6.636	6.729	7.074	7.120
	6.00 15.601	6.25 13.234	6.50 7.023	6.75 6.490	7.00 5.824	7.25 5.095	7.50 3.830	7.75 3.580	8.00 3.299	8.25 3.034	8.50 2.785
	18.19	18.18	24.89	24.90	24.91	24.93	18.13	18.13	18.13	18.14	18.16
	0.149	0.175	0.335	0.363	0.406	0.465	0.629	0.675	0.734	0.800	0.876
	7.185	7.270	7.639	7.692	7.769	7.873	8.157	8.243	8.365	8.525	8.770
	8.75 2.667	9.00 2.579	9.25 2.522	9.50 2.478	9.75 2.458	10.00 2.444	(Ref.) : 3				
	18.19	18.25	18.35	23.27	23.74	24.65					
	0.916	0.947	0.969	0.984	0.991	0.995					
	8.957	9.174	9.409	9.703	9.951	10.207					

61	CROTONIC ACID			C4H6O2			pHL RE t Z pHS	3.00 10.417 24.46 0.224 4.146	3.25 8.738 23.20 0.268 4.247	3.50 7.476 22.33 0.314 4.343					
	-1	33.5	4.705	86.09											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	6.377	5.392	4.671	4.226	3.779	3.374					3.254	2.995	2.790	2.638	2.569
	21.66	21.15	18.43	18.27	18.14	18.03					20.58	20.52	20.49	18.12	18.11
	0.369	0.438	0.511	0.566	0.635	0.713					0.740	0.806	0.867	0.924	0.949
	4.448	4.571	4.695	4.790	4.913	5.067					5.127	5.289	5.484	5.753	5.941
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	2.518	2.485	2.454	2.444	2.437	2.432					2.449	2.447	2.445	2.442	2.445
	18.10	18.10	25.01	25.01	25.00	25.00					18.06	18.06	18.07	18.08	18.10
	0.969	0.982	0.991	0.995	0.997	0.998					0.999	0.999	1.000	1.000	1.000
	6.161	6.398	6.705	6.946	7.192	7.440					7.638	7.887	8.136	8.386	8.638
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 7									
2.443	2.441	2.438	2.432	2.428	2.424										
18.13	18.20	18.30	23.20	23.67	24.56										
1.000	1.000	1.000	1.000	1.000	1.000										
8.888	9.139	9.390	9.690	9.944	10.203										
62	CYANIC ACID			HCNO			pHL RE t Z pHS	3.00 2.136 17.37 0.548 3.519	3.25 1.878 16.54 0.625 3.655	3.50 1.690 15.98 0.695 3.791					
	-1	67.0	3.470	43.03											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	1.538	1.416	1.379	1.318	1.269	1.235					1.233	1.214	1.202	1.195	1.192
	15.55	15.24	13.96	13.83	13.73	13.67					14.92	14.88	14.86	13.70	13.69
	0.766	0.833	0.857	0.898	0.933	0.959					0.960	0.976	0.986	0.992	0.996
	3.946	4.127	4.207	4.372	4.571	4.795					4.812	5.041	5.282	5.536	5.776
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	1.189	1.188	1.187	1.186	1.186	1.185					1.187	1.186	1.186	1.186	1.186
	13.69	13.69	17.05	17.05	17.05	17.05					13.67	13.67	13.67	13.68	13.68
	0.997	0.999	0.999	1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
	6.022	6.271	6.532	6.780	7.030	7.280					7.520	7.770	8.020	8.270	8.520
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 4									
1.186	1.186	1.186	1.186	1.185	1.185										
13.69	13.71	13.75	16.03	16.13	16.32										
1.000	1.000	1.000	1.000	1.000	1.000										
8.770	9.020	9.270	9.528	9.779	10.029										
63	CYANOACETIC ACID			C3H3NO2			pHL RE t Z pHS	3.00 2.035 23.06 0.876 3.281	3.25 1.947 20.93 0.916 3.470	3.50 1.889 19.58 0.945 3.667					
	-1	45.0	2.469	85.06											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	1.850	1.824	1.828	1.814	1.804	1.798					1.797	1.794	1.791	1.796	1.794
	18.70	18.16	16.33	16.04	15.86	15.76					17.66	17.60	17.57	15.82	15.81
	0.966	0.980	0.980	0.988	0.993	0.996					0.996	0.998	0.999	0.999	1.000
	3.881	4.112	4.126	4.349	4.587	4.832					4.849	5.096	5.344	5.582	5.830
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	1.794	1.792	1.789	1.789	1.788	1.787					1.794	1.794	1.793	1.792	1.794
	15.81	15.81	20.89	20.89	20.88	20.88					15.78	15.78	15.78	15.79	15.80
	1.000	1.000	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
	6.080	6.330	6.614	6.864	7.114	7.364					7.580	7.830	8.080	8.330	8.580
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1									
1.793	1.792	1.791	1.788	1.787	1.785										
15.82	15.86	15.92	19.43	19.67	20.10										
1.000	1.000	1.000	1.000	1.000	1.000										
8.831	9.081	9.332	9.611	9.864	10.117										

64	m-CYANOBEZOIC ACID				C8H5NO2			pHL	3.00	3.25	3.50
	-1	31.3	3.598	147.13	RE	4.581	4.058	3.668			
					t	27.13	25.14	23.80			
					Z	0.559	0.633	0.703			
					pHS	3.673	3.805	3.940			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.349	3.094	3.051	2.913	2.805	2.729	2.718	2.674	2.647	2.648	2.638
	22.81	22.12	19.34	19.03	18.81	18.67	21.44	21.36	21.31	18.77	18.75
	0.772	0.838	0.855	0.897	0.932	0.959	0.961	0.977	0.987	0.992	0.996
	4.094	4.276	4.333	4.500	4.700	4.924	4.959	5.190	5.431	5.665	5.906
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.631	2.626	2.614	2.612	2.609	2.607	2.629	2.627	2.626	2.623	2.627	
18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75	
0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
6.153	6.401	6.709	6.959	7.208	7.458	7.651	7.901	8.151	8.401	8.653	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 7					
2.625	2.622	2.619	2.610	2.607	2.601						
18.79	18.86	18.98	24.28	24.83	25.91						
1.000	1.000	1.000	1.000	1.000	1.000						
8.903	9.154	9.406	9.710	9.966	10.226						
65	CYCLOBUTANE-1,1-DICARBOXYLIC ACID				C6H8O4			pHL	3.00	3.25	3.50
	-1	25.5	3.127	144.13	RE	4.258	3.935	3.696			
	-2	51.1	5.879		t	32.64	29.71	27.80			
					Z	0.753	0.817	0.872			
					pHS	3.567	3.721	3.881			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.502	3.343	3.343	3.223	3.090	2.932	2.894	2.708	2.503	2.253	2.119
	26.52	25.81	22.46	22.34	22.59	23.23	26.90	27.93	29.16	27.68	28.54
	0.922	0.968	0.976	1.015	1.061	1.122	1.136	1.220	1.329	1.506	1.611
	4.064	4.272	4.308	4.505	4.726	4.959	5.005	5.230	5.454	5.760	5.941
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
1.999	1.905	1.815	1.780	1.756	1.739	1.758	1.753	1.748	1.745	1.747	
29.30	29.90	40.12	40.34	40.48	40.54	30.88	30.91	30.93	30.95	30.98	
1.717	1.810	1.895	1.934	1.961	1.977	1.986	1.992	1.996	1.998	1.999	
6.145	6.366	6.667	6.886	7.122	7.366	7.587	7.832	8.081	8.330	8.581	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1					
1.745	1.742	1.740	1.728	1.724	1.720						
31.01	31.08	31.19	37.90	38.31	39.08						
1.999	2.000	2.000	2.000	2.000	2.000						
8.831	9.081	9.331	9.609	9.860	10.113						
66	CYCLOHEXANE-1,1-DICARBOXYLIC ACID				C8H12O4			pHL	3.00	3.25	3.50
	-1	24.0	3.451	172.18	RE	3.966	3.398	2.971			
	-2	48.0	4.110		t	37.68	35.67	34.61			
					Z	0.877	1.032	1.191			
					pHS	3.607	3.737	3.871			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.623	2.348	2.309	2.160	2.046	1.970	1.958	1.914	1.886	1.891	1.881
	34.13	34.08	30.53	30.70	30.91	31.10	35.02	35.14	35.22	31.78	31.80
	1.362	1.535	1.581	1.701	1.804	1.880	1.886	1.932	1.961	1.977	1.987
	4.025	4.206	4.260	4.432	4.636	4.863	4.887	5.120	5.362	5.603	5.846
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
1.874	1.869	1.852	1.849	1.846	1.842	1.873	1.871	1.869	1.866	1.871	
31.81	31.82	42.27	42.26	42.23	42.20	31.80	31.80	31.81	31.81	31.84	
1.993	1.996	1.998	1.999	1.999	2.000	2.000	2.000	2.000	2.000	2.000	
6.093	6.342	6.628	6.877	7.127	7.376	7.591	7.841	8.091	8.341	8.592	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1					
1.868	1.866	1.863	1.849	1.845	1.840						
31.88	31.95	32.07	39.28	39.75	40.64						
2.000	2.000	2.000	2.000	2.000	2.000						
8.842	9.092	9.343	9.624	9.876	10.130						



67	CYCLOPENTANE-1,1-DICARBOXYLIC ACID						C7H10O4	DHL RE t Z DHS	3.00 3.506 36.94 0.953 3.540	3.25 3.052 34.89 1.104 3.682	3.50 2.706 33.84 1.256 3.828				
	-1	25.0	3.230			158.15									
	-2	50.0	4.080												
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	2.421	2.196	2.170	2.041	1.943	1.877	1.867					1.827	1.802	1.807	1.798
	33.40	33.40	30.00	30.18	30.39	30.58	34.32					34.44	34.52	31.22	31.24
	1.416	1.575	1.612	1.723	1.818	1.888	1.893					1.936	1.963	1.979	1.988
	3.994	4.185	4.234	4.415	4.624	4.853	4.876					5.110	5.353	5.595	5.838
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	1.792	1.787	1.772	1.769	1.766	1.763	1.790					1.789	1.787	1.785	1.788
	31.25	31.26	41.26	41.24	41.22	41.19	31.24					31.24	31.24	31.25	31.28
1.993	1.996	1.998	1.999	1.999	2.000	2.000	2.000	2.000	2.000	2.000					
6.085	6.334	6.618	6.867	7.117	7.366	7.584	7.834	8.084	8.333	8.584					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1									
1.786	1.784	1.781	1.769	1.765	1.761										
31.31	31.37	31.49	38.37	38.80	39.61										
2.000	2.000	2.000	2.000	2.000	2.000										
8.834	9.085	9.335	9.614	9.866	10.119										
68	DECYLSULFONIC ACID						C10H22O3S	DHL RE t Z DHS	3.00 3.074 32.83 0.996 3.377	3.25 3.070 29.17 0.998 3.577	3.50 3.067 26.85 0.998 3.778				
	-1	26.9	1.000			222.30									
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	3.065	3.063	3.084	3.083	3.080	3.077	3.071					3.068	3.065	3.086	3.085
	25.33	24.39	21.26	20.77	20.46	20.28	23.54					23.44	23.38	20.40	20.38
	0.999	0.999	0.999	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000
	3.995	4.227	4.232	4.454	4.691	4.936	4.968					5.214	5.463	5.688	5.936
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	3.082	3.079	3.062	3.061	3.058	3.055	3.087					3.085	3.082	3.079	3.084
	20.37	20.36	29.07	29.06	29.06	29.05	20.32					20.33	20.34	20.35	20.38
	1.000	1.000	1.000	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000
6.185	6.435	6.752	7.002	7.252	7.502	7.686	7.936	8.186	8.436	8.688					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12									
3.081	3.078	3.073	3.060	3.054	3.045										
20.44	20.53	20.71	27.05	27.88	29.58										
1.000	1.000	1.000	1.000	1.000	1.000										
8.939	9.190	9.443	9.759	10.018	10.284										
69	DIBROMOFLUOROACETIC ACID						C2HBr2FO2	DHL RE t Z DHS	3.00 2.109 25.94 0.995 3.244	3.25 2.105 23.13 0.997 3.456	3.50 2.102 21.40 0.998 3.671				
	-1	38.6	1.000			235.84									
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	2.100	2.099	2.107	2.106	2.105	2.103	2.102					2.100	2.099	2.107	2.106
	20.32	19.67	17.53	17.18	16.97	16.85	19.08					19.01	18.97	16.92	16.91
	0.999	0.999	0.999	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000
	3.897	4.135	4.139	4.370	4.611	4.858	4.879					5.127	5.376	5.609	5.858
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	2.105	2.104	2.098	2.098	2.097	2.095	2.107					2.107	2.106	2.104	2.106
	16.91	16.90	22.87	22.86	22.86	22.86	16.87					16.87	16.88	16.89	16.90
	1.000	1.000	1.000	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000
6.108	6.358	6.652	6.902	7.152	7.401	7.608	7.858	8.108	8.358	8.609					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 12									
2.105	2.104	2.102	2.098	2.095	2.093										
16.93	16.97	17.06	21.22	21.56	22.18										
1.000	1.000	1.000	1.000	1.000	1.000										
8.859	9.110	9.361	9.650	9.903	10.159										

70	2,3-DIBROMOPROPIONIC ACID				C <sub>3</sub> H <sub>4</sub> Br <sub>2</sub> O <sub>2</sub>			pHL	3.00	3.25	3.50
	-1	32.3	2.201		231.87		RE	2.688	2.630	2.593	
							t	28.66	25.68	23.78	
							Z	0.938	0.960	0.974	
							pHS	3.347	3.540	3.737	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	2.567	2.549	2.563	2.553	2.546	2.540	2.537	2.533	2.530	2.543	
	22.53	21.76	19.17	18.77	18.51	18.37	21.06	20.98	20.93	18.46	
	0.984	0.991	0.991	0.994	0.997	0.998	0.998	0.999	0.999	1.000	
	3.952	4.183	4.191	4.413	4.651	4.895	4.922	5.168	5.417	5.646	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.540	2.537	2.528	2.526	2.525	2.522	2.543	2.541	2.540	2.537	
	18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.144	6.394	6.700	6.949	7.199	7.449	7.644	7.894	8.144	8.394	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.539	2.537	2.534	2.526	2.523	2.518					
	18.48	18.54	18.66	23.77	24.28	25.27					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.896	9.147	9.399	9.701	9.956	10.215					
71	DICHLOROACETIC ACID (S)				C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O <sub>2</sub>			pHL	3.00	3.25	3.50
	-1	39.7	1.257		128.94		RE	2.057	2.050	2.045	
							t	25.48	22.74	21.06	
							Z	0.991	0.994	0.996	
							pHS	3.237	3.449	3.664	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	2.042	2.039	2.047	2.046	2.044	2.043	2.041	2.040	2.038	2.046	
	20.01	19.37	17.30	16.96	16.75	16.63	18.80	18.74	18.70	16.71	
	0.998	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	
	3.891	4.129	4.133	4.364	4.606	4.853	4.873	5.121	5.370	5.604	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.044	2.043	2.038	2.037	2.036	2.035	2.046	2.046	2.044	2.043	
	16.69	16.69	22.48	22.48	22.47	22.47	16.65	16.66	16.66	16.67	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.102	6.352	6.645	6.895	7.145	7.394	7.602	7.852	8.102	8.352	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 7				
	2.044	2.043	2.041	2.037	2.035	2.033					
	16.71	16.75	16.83	20.87	21.18	21.76					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.854	9.104	9.355	9.643	9.896	10.151					
72	DICHLOROFLUOROACETIC ACID				C <sub>2</sub> HCl <sub>2</sub> F <sub>2</sub> O <sub>2</sub>			pHL	3.00	3.25	3.50
	-1	36.5	1.000		146.93		RE	2.235	2.231	2.228	
							t	26.84	23.91	22.11	
							Z	0.995	0.997	0.998	
							pHS	3.264	3.474	3.686	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	2.226	2.225	2.234	2.233	2.232	2.230	2.228	2.227	2.225	2.235	
	20.97	20.28	18.02	17.64	17.42	17.29	19.66	19.59	19.55	17.37	
	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	3.911	4.148	4.152	4.382	4.623	4.869	4.892	5.139	5.388	5.620	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.233	2.231	2.224	2.224	2.222	2.221	2.235	2.234	2.233	2.231	
	17.35	17.35	23.68	23.67	23.67	23.66	17.32	17.32	17.33	17.34	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.119	6.368	6.666	6.916	7.166	7.416	7.619	7.869	8.119	8.369	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 12				
	2.233	2.231	2.229	2.223	2.221	2.218					
	17.38	17.43	17.52	21.96	22.34	23.06					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.870	9.121	9.372	9.665	9.919	10.176					

73	2,4-DICHLOROPHENOL -1	31.3	7.699	C6H4Cl2O 163.00	pHL RE t Z pHS	3.00 □□□□□ 24.84 0.008 5.628	3.25 □□□□□ 23.72 0.010 5.715	3.50 □□□□□ 22.95 0.012 5.794			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	□□□□□	□□□□□	91.443	80.177	67.993	55.733	46.287	38.990	31.774	15.933	14.509
	22.34	21.87	18.94	18.84	18.75	18.67	21.26	21.23	21.21	18.78	18.77
	0.015	0.019	0.027	0.030	0.036	0.044	0.053	0.063	0.077	0.156	0.171
	5.878	5.972	6.127	6.186	6.259	6.349	6.435	6.513	6.609	6.949	6.997
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	12.756	10.843	6.132	5.670	5.106	4.509	3.641	3.423	3.196	2.997	2.839
	18.77	18.77	25.98	25.99	26.00	26.03	18.72	18.72	18.73	18.74	18.76
	0.195	0.230	0.413	0.447	0.498	0.566	0.712	0.758	0.814	0.870	0.922
	7.066	7.155	7.521	7.582	7.669	7.786	8.058	8.162	8.306	8.488	8.735
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 3				
	2.756	2.699	2.663	2.632	2.619	2.608					
	18.80	18.87	18.99	24.29	24.85	25.93					
	0.950	0.970	0.983	0.991	0.995	0.997					
	8.943	9.173	9.415	9.717	9.969	10.228					
74	2,4-DICHLOROPHENOXYACETIC -1	25.0	1.000	ACID C8H6Cl2O3 221.00	pHL RE t Z pHS	3.00 3.320 34.59 0.996 3.405	3.25 3.316 30.71 0.998 3.602	3.50 3.313 28.24 0.999 3.801			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.311	3.309	3.333	3.332	3.329	3.326	3.319	3.315	3.311	3.337	3.335
	26.62	25.60	22.22	21.69	21.36	21.16	24.69	24.58	24.51	21.30	21.27
	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	4.016	4.248	4.252	4.473	4.709	4.954	4.988	5.234	5.483	5.706	5.954
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.332	3.328	3.308	3.306	3.303	3.299	3.337	3.335	3.332	3.328	3.334
	21.26	21.25	30.66	30.65	30.64	30.63	21.21	21.22	21.23	21.25	21.28
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.203	6.453	6.775	7.024	7.274	7.524	7.704	7.954	8.204	8.454	8.707
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 2 , 12				
	3.331	3.326	3.322	3.305	3.297	3.286					
	21.35	21.46	21.66	28.60	29.63	31.79					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.958	9.209	9.462	9.785	10.045	10.315					
75	DICHROMIC ACID -1 -2	58.9 82.1	0.745 6.723	H2Cr2O7 218.00	pHL RE t Z pHS	3.00 1.359 20.62 0.996 3.097	3.25 1.357 18.48 0.998 3.330	3.50 1.355 17.24 1.000 3.564			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.354	1.353	1.355	1.354	1.352	1.349	1.348	1.343	1.334	1.320	1.298
	16.51	16.11	14.74	14.53	14.46	14.49	15.94	16.10	16.41	15.65	16.49
	1.001	1.002	1.002	1.005	1.009	1.015	1.016	1.028	1.048	1.089	1.146
	3.803	4.048	4.051	4.293	4.540	4.789	4.799	5.048	5.299	5.576	5.821
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.266	1.227	1.166	1.133	1.103	1.079	1.070	1.017	1.054	1.051	1.049
	17.69	19.20	26.43	27.92	29.25	30.28	25.29	14.52	25.89	26.03	26.11
	1.232	1.347	1.528	1.643	1.750	1.838	1.904	1.006	1.966	1.980	1.989
	6.064	6.305	6.624	6.826	7.046	7.280	7.536	4.350	8.015	8.253	8.513
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10				
	1.048	1.047	1.046	1.042	1.041	1.040					
	26.17	26.23	26.29	30.26	30.43	30.72					
	1.994	1.996	1.998	1.999	1.999	2.000					
	8.762	9.011	9.261	9.513	9.763	10.013					

76	DIETHYLACETIC ACID			C6H12O2			pHL			3.00	3.25	3.50
	-1	30.3	4.734	160.17			RE	11.668	9.780	8.360		
							t	26.19	24.74	23.75		
							Z	0.221	0.265	0.311		
							pHS	4.169	4.271	4.367		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	7.122	6.016	5.240	4.731	4.223	3.766	3.628	3.335	3.104	2.938	2.859	
	22.99	22.43	19.42	19.25	19.09	18.98	21.81	21.75	21.71	19.09	19.08	
	0.366	0.435	0.505	0.561	0.630	0.710	0.737	0.804	0.865	0.922	0.949	
	4.472	4.596	4.715	4.811	4.935	5.090	5.149	5.313	5.508	5.773	5.962	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.801	2.763	2.726	2.715	2.707	2.701	2.723	2.721	2.718	2.715	2.719	
	19.07	19.06	26.75	26.74	26.74	26.73	19.03	19.03	19.04	19.05	19.07	
	0.968	0.981	0.991	0.995	0.997	0.998	0.999	0.999	1.000	1.000	1.000	
	6.183	6.419	6.733	6.973	7.220	7.468	7.660	7.909	8.158	8.408	8.660	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1					
	2.717	2.714	2.710	2.701	2.697	2.691						
	19.12	19.19	19.32	24.83	25.45	26.62						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.911	9.162	9.413	9.720	9.976	10.238						
77	DIETHYLMALONIC ACID			C7H12O4			pHL			3.00	3.25	3.50
	-1	25.0	2.211	116.16			RE	3.483	3.421	3.380		
	-2	49.5	7.290				t	34.27	30.58	28.20		
							Z	0.948	0.966	0.978		
							pHS	3.435	3.623	3.814		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	3.351	3.330	3.354	3.341	3.328	3.314	3.305	3.285	3.256	3.239	3.169	
	26.62	25.62	22.23	21.72	21.42	21.27	24.81	24.79	24.89	21.95	22.37	
	0.987	0.993	0.993	0.997	1.000	1.004	1.005	1.010	1.019	1.034	1.059	
	4.024	4.251	4.260	4.477	4.712	4.955	4.991	5.236	5.483	5.734	5.978	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	3.062	2.912	2.576	2.413	2.250	2.105	2.010	1.941	1.888	1.852	1.835	
	23.04	24.00	35.80	36.93	38.06	39.06	30.02	30.48	30.83	31.06	31.23	
	1.100	1.162	1.325	1.425	1.539	1.657	1.774	1.846	1.902	1.941	1.966	
	6.221	6.461	6.855	7.037	7.232	7.440	7.685	7.885	8.109	8.347	8.597	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 7					
	1.822	1.812	1.806	1.791	1.786	1.781						
	31.34	31.45	31.59	38.57	39.02	39.85						
	1.980	1.989	1.994	1.997	1.998	1.999						
	8.841	9.089	9.338	9.617	9.869	10.122						
78	DIFLUOROACETIC ACID			C2H2F2O2			pHL			3.00	3.25	3.50
	-1	40.6	1.000	96.03			RE	2.002	1.997	1.995		
							t	25.17	22.45	20.80		
							Z	0.995	0.997	0.998		
							pHS	3.226	3.440	3.657		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	1.993	1.991	1.998	1.998	1.996	1.995	1.994	1.992	1.991	1.998	1.998	
	19.76	19.14	17.12	16.78	16.58	16.47	18.59	18.52	18.49	16.54	16.53	
	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	3.885	4.123	4.127	4.359	4.602	4.848	4.868	5.116	5.365	5.600	5.849	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	1.997	1.996	1.991	1.990	1.989	1.988	1.999	1.998	1.997	1.996	1.998	
	16.52	16.52	22.18	22.18	22.17	22.17	16.49	16.49	16.50	16.51	16.52	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.098	6.348	6.639	6.889	7.139	7.389	7.598	7.848	8.092	8.348	8.599	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12					
	1.997	1.995	1.994	1.990	1.988	1.986						
	16.54	16.58	16.66	20.60	20.89	21.44						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.850	9.100	9.351	9.637	9.890	10.145						

79	2,4-DIHYDROXYBENZOIC ACID					C7H6O4 154.12	pHL RE t Z DHS	3.00	3.25	3.50			
	-1	32.0	3.395					3.987	3.585	3.288			
	3.75	4.00	4.00	4.25	4.50			4.75	5.00	5.25	5.50	5.75	
	3.052	2.870	2.853	2.754	2.679			2.629	2.592	2.574	2.580	2.573	
	22.55	21.85	19.15	18.83	18.60			18.45	21.17	21.09	21.04	18.55	18.54
	0.830	0.884	0.895	0.928	0.955			0.973	0.975	0.985	0.991	0.995	0.997
	4.049	4.243	4.289	4.470	4.681			4.911	4.943	5.179	5.423	5.656	5.900
	6.00	6.25	6.50	6.75	7.00			7.25	7.50	7.75	8.00	8.25	8.50
	2.569	2.565	2.553	2.552	2.550			2.547	2.568	2.567	2.565	2.563	2.566
	18.53	18.52	25.78	25.78	25.77			25.77	18.49	18.49	18.50	18.51	18.53
	0.998	0.999	1.000	1.000	1.000			1.000	1.000	1.000	1.000	1.000	1.000
6.147	6.396	6.703	6.952	7.202	7.452	7.646	7.896	8.146	8.396	8.648			
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10							
2.564	2.562	2.559	2.551	2.547	2.542								
18.57	18.64	18.76	23.92	24.44	25.46								
1.000	1.000	1.000	1.000	1.000	1.000								
8.898	9.149	9.401	9.704	9.959	10.219								
80	2,5-DIHYDROXYBENZOIC ACID					C7H6O4 154.12	pHL RE t Z DHS	3.00	3.25	3.50			
	-1	34.4	2.975					3.065	2.845	2.690			
	3.75	4.00	4.00	4.25	4.50			4.75	5.00	5.25	5.50	5.75	
	2.574	2.492	2.496	2.451	2.419			2.399	2.395	2.383	2.375	2.383	2.380
	21.65	20.96	18.50	18.16	17.93			17.79	20.31	20.24	20.19	17.88	17.87
	0.916	0.947	0.950	0.968	0.981			0.989	0.990	0.994	0.997	0.998	0.999
	3.976	4.190	4.217	4.421	4.648			4.887	4.914	5.157	5.403	5.636	5.882
	6.00	6.25	6.50	6.75	7.00			7.25	7.50	7.75	8.00	8.25	8.50
	2.378	2.375	2.367	2.366	2.364			2.362	2.379	2.378	2.376	2.375	2.378
	17.86	17.86	24.59	24.58	24.58			24.57	17.82	17.83	17.83	17.84	17.86
	0.999	1.000	1.000	1.000	1.000			1.000	1.000	1.000	1.000	1.000	1.000
6.131	6.381	6.682	6.932	7.182	7.432	7.631	7.881	8.131	8.381	8.632			
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3							
2.376	2.374	2.372	2.365	2.362	2.358								
17.89	17.95	18.06	22.80	23.24	24.08								
1.000	1.000	1.000	1.000	1.000	1.000								
8.883	9.133	9.385	9.682	9.936	10.195								
81	2,6-DIHYDROXYBENZOIC ACID					C7H6O4 154.12	pHL RE t Z DHS	3.00	3.25	3.50			
	-1	37.2	1.301					2.202	2.194	2.189			
	3.75	4.00	4.00	4.25	4.50			4.75	5.00	5.25	5.50	5.75	
	2.185	2.182	2.192	2.190	2.188			2.186	2.185	2.183	2.181	2.191	2.190
	20.74	20.07	17.85	17.48	17.26			17.14	19.46	19.39	19.35	17.22	17.21
	0.998	0.999	0.999	0.999	1.000			1.000	1.000	1.000	1.000	1.000	1.000
	3.907	4.144	4.148	4.378	4.619			4.865	4.887	5.135	5.384	5.616	5.865
	6.00	6.25	6.50	6.75	7.00			7.25	7.50	7.75	8.00	8.25	8.50
	2.188	2.187	2.181	2.180	2.179			2.177	2.191	2.190	2.189	2.187	2.190
	17.20	17.20	23.40	23.39	23.39			23.39	17.16	17.17	17.17	17.18	17.19
	1.000	1.000	1.000	1.000	1.000			1.000	1.000	1.000	1.000	1.000	1.000
6.115	6.365	6.661	6.911	7.161	7.411	7.615	7.865	8.115	8.365	8.616			
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3							
2.188	2.187	2.185	2.180	2.177	2.174								
17.22	17.27	17.36	21.71	22.07	22.75								
1.000	1.000	1.000	1.000	1.000	1.000								
8.867	9.117	9.368	9.660	9.914	10.170								

82	3,4-DIHYDROXYBENZOIC -1	34.4	ACID 4,509		C7H6O4 154.12		pHL RE t Z pHS	3.00 8,509 24,19 0,268 4,051	3,25 7,179 22,92 0,318 4,156	3,50 6,180 22,04 0,371 4,255	
	3,75 5,312 21,36 0,433 4,366	4,00 4,540 20,85 0,508 4,496	4,00 4,039 18,21 0,577 4,613	4,25 3,681 18,05 0,634 4,717	4,50 3,329 17,91 0,703 5,017	4,75 3,021 17,80 0,778 5,017	4,75 2,944 20,28 0,798 5,071	5,00 2,749 20,23 0,856 5,248	5,25 2,603 20,19 0,906 5,455	5,50 2,508 17,88 0,946 5,716	5,75 2,459 17,87 0,966 5,919
	6,00 2,424 17,86 0,979 6,147	6,25 2,402 17,86 0,988 6,388	6,50 2,380 24,59 0,994 6,693	6,75 2,373 24,58 0,997 6,936	7,00 2,368 24,58 0,998 7,184	7,25 2,364 24,57 0,999 7,432	7,50 2,381 17,82 0,999 7,632	7,75 2,379 17,83 1,000 7,881	8,00 2,377 17,83 1,000 8,131	8,25 2,375 17,84 1,000 8,381	8,50 2,378 17,86 1,000 8,632
	8,75 2,376 17,89 1,000 8,883	9,00 2,374 17,95 1,000 9,133	9,25 2,372 18,06 1,000 9,385	9,50 2,365 22,80 1,000 9,682	9,75 2,362 23,24 1,000 9,936	10,00 2,358 24,08 1,000 10,195	(Ref.) : 3				
83	3,5-DIHYDROXYBENZOIC -1	34.4	ACID 4,051		C7H6O4 154.12		pHL RE t Z pHS	3.00 5,802 24,71 0,397 3,843	3,25 4,988 23,23 0,463 3,959	3,50 4,376 22,22 0,529 4,073	
	3,75 3,855 21,45 0,602 4,201	4,00 3,409 20,89 0,684 4,354	4,00 3,224 18,30 0,728 4,446	4,25 2,999 18,09 0,785 4,577	4,50 2,798 17,92 0,843 4,744	4,75 2,640 17,79 0,895 4,943	4,75 2,614 20,30 0,903 4,984	5,00 2,519 20,23 0,938 5,193	5,25 2,455 20,19 0,962 5,422	5,50 2,429 17,88 0,978 5,667	5,75 2,408 17,87 0,987 5,895
	6,00 2,393 17,86 0,993 6,137	6,25 2,384 17,86 0,996 6,383	6,50 2,371 24,59 0,998 6,686	6,75 2,368 24,58 0,999 6,934	7,00 2,365 24,58 0,999 7,182	7,25 2,363 24,57 1,000 7,432	7,50 2,380 17,82 1,000 7,631	7,75 2,378 17,83 1,000 7,881	8,00 2,377 17,83 1,000 8,131	8,25 2,375 17,84 1,000 8,381	8,50 2,378 17,86 1,000 8,632
	8,75 2,376 17,89 1,000 8,883	9,00 2,374 17,95 1,000 9,133	9,25 2,372 18,06 1,000 9,385	9,50 2,365 22,80 1,000 9,682	9,75 2,362 23,24 1,000 9,936	10,00 2,358 24,08 1,000 10,195	(Ref.) : 3				
84	DIHYDROXYTARTARIC -1 -2	32,0 60,0	ACID 1,947 4,004		C4H6O8 182,09		pHL RE t Z pHS	3.00 2,262 32,61 1,174 3,310	3,25 2,111 30,62 1,276 3,507	3,50 1,967 29,92 1,389 3,702	
	3,75 1,832 29,90 1,514 3,906	4,00 1,713 30,22 1,641 4,122	4,00 1,706 27,50 1,663 4,162	4,25 1,627 27,84 1,760 4,363	4,50 1,567 28,15 1,842 4,584	4,75 1,525 28,38 1,902 4,819	4,75 1,519 31,45 1,905 4,835	5,00 1,492 31,60 1,943 5,073	5,25 1,476 31,70 1,967 5,317	5,50 1,478 28,99 1,981 5,563	5,75 1,472 29,02 1,989 5,807
	6,00 1,468 29,04 1,994 6,055	6,25 1,465 29,05 1,996 6,304	6,50 1,455 37,26 1,998 6,576	6,75 1,454 37,25 1,999 6,825	7,00 1,452 37,24 1,999 7,075	7,25 1,449 37,22 2,000 7,324	7,50 1,467 29,03 2,000 7,554	7,75 1,466 29,03 2,000 7,803	8,00 1,465 29,04 2,000 8,053	8,25 1,464 29,04 2,000 8,303	8,50 1,466 29,06 2,000 8,554
	8,75 1,465 29,09 2,000 8,804	9,00 1,463 29,13 2,000 9,054	9,25 1,462 29,22 2,000 9,304	9,50 1,454 34,82 2,000 9,572	9,75 1,451 35,11 2,000 9,823	10,00 1,449 35,64 2,000 10,075	(Ref.) : 12, 7				

85	2,3-DIMETHYLBENZOIC ACID			C9H10O2			pHL RE t Z pHS	3.00	3.25	3.50		
	-1	27.1	3.738	150.18				5.679	5.001	4.491		
								29.86	27.61	26.09		
								0.523	0.596	0.665		
								3.751	3.878	4.007		
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	4.067	3.722	3.657	3.471	3.319	3.212		3.193	3.130	3.090	3.091	3.077
	24.97	24.19	20.94	20.60	20.35	20.19		23.42	23.32	23.27	20.31	20.29
	0.737	0.808	0.829	0.875	0.917	0.948		0.952	0.971	0.983	0.990	0.994
	4.155	4.330	4.390	4.550	4.743	4.963		5.002	5.230	5.470	5.700	5.940
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
3.067	3.060	3.041	3.038	3.035	3.032	3.063	3.061	3.058	3.055	3.060		
20.28	20.28	28.92	28.91	28.90	28.89	20.24	20.24	20.25	20.27	20.30		
0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
6.186	6.434	6.752	7.000	7.250	7.500	7.684	7.934	8.184	8.434	8.687		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1						
3.057	3.054	3.049	3.036	3.030	3.022							
20.35	20.44	20.61	26.90	27.72	29.38							
1.000	1.000	1.000	1.000	1.000	1.000							
8.937	9.188	9.441	9.757	10.015	10.281							
86	2,4-DIMETHYLBENZOIC ACID			C9H10O2			pHL RE t Z pHS	3.00	3.25	3.50		
	-1	27.1	4.182	150.18				7.891	6.765	5.912		
								29.08	27.14	25.82		
								0.372	0.436	0.500		
								3.932	4.045	4.156		
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	5.181	4.552	4.303	3.980	3.687	3.455		3.409	3.269	3.174	3.139	3.106
	24.83	24.12	20.81	20.55	20.33	20.18		23.39	23.31	23.26	20.31	20.29
	0.573	0.655	0.700	0.758	0.821	0.878		0.889	0.928	0.956	0.974	0.985
	4.282	4.431	4.518	4.646	4.809	5.004		5.050	5.257	5.484	5.723	5.950
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
3.084	3.069	3.046	3.041	3.037	3.033	3.064	3.061	3.059	3.055	3.060		
20.28	20.27	28.92	28.91	28.90	28.89	20.24	20.24	20.25	20.27	20.30		
0.991	0.995	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000		
6.190	6.436	6.754	7.001	7.250	7.500	7.684	7.934	8.184	8.434	8.687		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1						
3.057	3.054	3.049	3.036	3.030	3.022							
20.35	20.44	20.61	26.90	27.72	29.38							
1.000	1.000	1.000	1.000	1.000	1.000							
8.937	9.188	9.441	9.757	10.015	10.281							
87	2,5-DIMETHYLBENZOIC ACID			C9H10O2			pHL RE t Z pHS	3.00	3.25	3.50		
	-1	27.1	3.977	150.18				6.727	5.832	5.156		
								29.42	27.35	25.94		
								0.439	0.508	0.576		
								3.845	3.965	4.083		
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	4.583	4.100	3.956	3.702	3.482	3.317		3.287	3.189	3.125	3.111	3.089
	24.90	24.15	20.87	20.57	20.34	20.18		23.41	23.32	23.27	20.31	20.29
	0.651	0.731	0.764	0.818	0.872	0.916		0.923	0.952	0.972	0.983	0.990
	4.219	4.379	4.454	4.596	4.774	4.981		5.024	5.242	5.476	5.710	5.944
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
3.074	3.064	3.043	3.039	3.036	3.032	3.063	3.061	3.058	3.055	3.060		
20.28	20.28	28.92	28.91	28.90	28.89	20.24	20.24	20.25	20.27	20.30		
0.994	0.997	0.998	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
6.188	6.435	6.753	7.001	7.250	7.500	7.684	7.934	8.184	8.434	8.687		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1						
3.057	3.054	3.049	3.036	3.030	3.022							
20.35	20.44	20.61	26.90	27.72	29.38							
1.000	1.000	1.000	1.000	1.000	1.000							
8.937	9.188	9.441	9.757	10.015	10.281							

88	2,6-DIMETHYLBENZOIC ACID			C9H10O2			pHL RE t Z pHS	3.00 4.280 30.85 0.701 3.585	3.25 3.917 28.18 0.768 3.734	3.50 3.653 26.38 0.825 3.888					
	-1	27.1	3.246	150.18											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	3.446	3.292	3.295	3.210	3.147	3.106					3.097	3.073	3.057	3.072	3.066
	25.10	24.24	21.06	20.65	20.36	20.19					23.43	23.33	23.27	20.31	20.29
	0.877	0.919	0.925	0.950	0.969	0.982					0.983	0.990	0.994	0.997	0.998
	4.064	4.267	4.299	4.490	4.709	4.944					4.979	5.218	5.464	5.691	5.936
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	3.061	3.056	3.040	3.037	3.035	3.031					3.063	3.061	3.058	3.055	3.060
	20.28	20.28	28.92	28.91	28.90	28.89					20.24	20.24	20.25	20.27	20.30
	0.999	0.999	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
	6.184	6.434	6.751	7.000	7.250	7.499					7.684	7.934	8.184	8.434	8.687
	8.75	9.00	9.25	9.50	9.75	10.00					(Ref.) · 11 , 1				
3.057	3.054	3.049	3.036	3.030	3.022										
20.35	20.44	20.61	26.90	27.72	29.38										
1.000	1.000	1.000	1.000	1.000	1.000										
8.937	9.188	9.441	9.757	10.015	10.281										
89	3,4-DIMETHYLBENZOIC ACID			C9H10O2			pHL RE t Z pHS	3.00 9.540 28.76 0.306 4.032	3.25 8.094 26.94 0.362 4.140	3.50 6.999 25.70 0.420 4.244					
	-1	27.1	4.408	150.18											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	6.053	5.224	4.806	4.394	4.005	3.679					3.604	3.402	3.258	3.185	3.135
	24.76	24.08	20.75	20.51	20.32	20.17					23.38	23.30	23.26	20.31	20.29
	0.488	0.568	0.623	0.684	0.753	0.822					0.838	0.890	0.930	0.959	0.975
	4.361	4.499	4.597	4.712	4.859	5.038					5.090	5.282	5.498	5.744	5.960
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	3.101	3.079	3.051	3.044	3.038	3.033					3.064	3.062	3.059	3.055	3.060
	20.28	20.27	28.92	28.91	28.90	28.89					20.24	20.24	20.25	20.27	20.30
	0.985	0.992	0.996	0.998	0.999	0.999					1.000	1.000	1.000	1.000	1.000
	6.195	6.439	6.757	7.002	7.251	7.500					7.685	7.934	8.184	8.434	8.687
	8.75	9.00	9.25	9.50	9.75	10.00					(Ref.) · 11 , 1				
3.057	3.054	3.049	3.036	3.030	3.022										
20.35	20.44	20.61	26.90	27.72	29.38										
1.000	1.000	1.000	1.000	1.000	1.000										
8.937	9.188	9.441	9.757	10.015	10.281										
90	3,5-DIMETHYLBENZOIC ACID			C9H10O2			pHL RE t Z pHS	3.00 8.706 28.91 0.336 3.984	3.25 7.420 27.03 0.396 4.094	3.50 6.448 25.76 0.457 4.202					
	-1	27.1	4.301	150.18											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	5.610	4.880	4.550	4.182	3.841	3.563					3.503	3.332	3.213	3.161	3.120
	24.79	24.10	20.78	20.53	20.32	20.18					23.39	23.31	23.26	20.31	20.29
	0.528	0.609	0.660	0.720	0.786	0.850					0.864	0.910	0.944	0.967	0.980
	4.323	4.466	4.558	4.680	4.834	5.021					5.070	5.269	5.491	5.733	5.955
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	3.092	3.074	3.048	3.042	3.037	3.033					3.064	3.061	3.059	3.055	3.060
	20.28	20.27	28.92	28.91	28.90	28.89					20.24	20.24	20.25	20.27	20.30
	0.988	0.993	0.997	0.998	0.999	0.999					1.000	1.000	1.000	1.000	1.000
	6.193	6.437	6.755	7.002	7.250	7.500					7.684	7.934	8.184	8.434	8.687
	8.75	9.00	9.25	9.50	9.75	10.00					(Ref.) · 11 , 1				
3.057	3.054	3.049	3.036	3.030	3.022										
20.35	20.44	20.61	26.90	27.72	29.38										
1.000	1.000	1.000	1.000	1.000	1.000										
8.937	9.188	9.441	9.757	10.015	10.281										



91	DIMETHYLMALONIC ACID				C5H8O4 132.12	pHL RE t Z pHS	3.00 4.339 32.53 0.738 3.577	3.25 4.000 29.62 0.803 3.729	3.50 3.750 27.71 0.858 3.888							
	-1	25.5	3.166													
	-2	51.1	6.059													
	3.75	4.00	4.00	4.25						4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.551	3.392	3.394	3.284						3.170	3.039	3.007	2.845	2.653	2.388	2.234
	26.40	25.62	22.26	22.04						22.13	22.58	26.19	27.03	28.17	26.80	27.78
	0.909	0.953	0.960	0.994						1.032	1.079	1.089	1.156	1.246	1.412	1.519
	4.069	4.275	4.309	4.505						4.726	4.960	5.005	5.235	5.465	5.779	5.962
	6.00	6.25	6.50	6.75						7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.090	1.971	1.850	1.804						1.771	1.748	1.764	1.756	1.750	1.746	1.748
28.70	29.46	39.86	40.17	40.37	40.48	30.84	30.89	30.92	30.94	30.97						
1.634	1.742	1.854	1.905	1.942	1.966	1.980	1.988	1.993	1.996	1.998						
6.162	6.378	6.687	6.896	7.127	7.368	7.590	7.834	8.081	8.330	8.581						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 7										
1.745	1.743	1.740	1.728	1.724	1.720											
31.01	31.07	31.18	37.90	38.31	39.08											
1.999	1.999	2.000	2.000	2.000	2.000											
8.851	9.081	9.331	9.609	9.860	10.113											
92	2,6-DINITROBENZOIC ACID				C7H4N2O6 212.12	pHL RE t Z pHS	3.00 2.628 29.60 0.994 3.321	3.25 2.622 26.34 0.996 3.525	3.50 2.618 24.30 0.998 3.731							
	-1	31.3	1.140													
	3.75	4.00	4.00	4.25						4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.616	2.613	2.628	2.626						2.624	2.622	2.618	2.616	2.613	2.628	2.627
	22.98	22.18	19.51	19.08						18.82	18.67	21.45	21.37	21.32	18.77	18.75
	0.999	0.999	0.999	1.000						1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.952	4.186	4.191	4.417						4.656	4.901	4.929	5.175	5.424	5.653	5.901
	6.00	6.25	6.50	6.75						7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.625	2.623	2.612	2.611						2.609	2.607	2.629	2.627	2.626	2.623	2.627
	18.74	18.74	26.17	26.16						26.16	26.15	18.70	18.71	18.71	18.73	18.75
1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
6.151	6.400	6.708	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1										
2.625	2.622	2.619	2.610	2.607	2.601											
18.79	18.86	18.98	24.28	24.83	25.91											
1.000	1.000	1.000	1.000	1.000	1.000											
8.903	9.154	9.406	9.710	9.966	10.226											
93	3,5-DINITROBENZOIC ACID				C7H4N2O6 212.12	pHL RE t Z pHS	3.00 3.373 29.90 0.824 3.462	3.25 3.187 27.07 0.874 3.631	3.50 3.058 25.19 0.912 3.806							
	-1	29.3	2.824													
	3.75	4.00	4.00	4.25						4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.963	2.897	2.910	2.873						2.847	2.830	2.825	2.814	2.807	2.822	2.819
	23.91	23.08	20.19	19.77						19.50	19.33	22.32	22.23	22.17	19.45	19.43
	0.942	0.964	0.966	0.979						0.987	0.993	0.993	0.996	0.998	0.999	0.999
	4.003	4.222	4.240	4.449						4.679	4.920	4.950	5.194	5.442	5.670	5.917
	6.00	6.25	6.50	6.75						7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.816	2.813	2.800	2.798						2.796	2.793	2.819	2.818	2.815	2.813	2.817
	19.42	19.41	27.38	27.37						27.36	27.35	19.37	19.38	19.39	19.40	19.43
1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
6.166	6.415	6.727	6.977	7.227	7.477	7.666	7.916	8.166	8.416	8.668						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1										
2.815	2.811	2.808	2.797	2.793	2.786											
19.47	19.55	19.69	25.42	26.08	27.39											
1.000	1.000	1.000	1.000	1.000	1.000											
8.919	9.169	9.421	9.731	9.988	10.250											

94	2,3-DINITROPHENOL -1			4.018	C6H4N2O5 184.11			pHL	3.00	3.25	3.50	
		31.3						RE	6.137	5.293	4.658	
								t	26.43	24.73	23.58	
								Z	0.414	0.481	0.549	
								pHS	3.842	3.959	4.075	
	3.75	4.00	4.00		4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	4.118	3.658	3.490		3.254	3.046	2.886	2.859	2.763	2.699	2.678	2.656
	22.71	22.08	19.24		18.99	18.80	18.66	21.43	21.36	21.31	18.77	18.75
	0.623	0.704	0.743		0.799	0.855	0.904	0.912	0.944	0.967	0.981	0.988
	4.206	4.362	4.446		4.583	4.754	4.956	4.998	5.211	5.442	5.682	5.913
	6.00	6.25	6.50		6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.642	2.632	2.617	2.614	2.611	2.608	2.629	2.627	2.626	2.623	2.627		
18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75		
0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000		
6.156	6.403	6.711	6.959	7.208	7.458	7.651	7.901	8.151	8.401	8.653		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3						
2.625	2.622	2.619	2.610	2.607	2.601							
18.79	18.86	18.98	24.28	24.83	25.91							
1.000	1.000	1.000	1.000	1.000	1.000							
8.903	9.154	9.406	9.710	9.966	10.226							
95	2,4-DINITROPHENOL -1			4.110	C6H4N2O5 184.11			pHL	3.00	3.25	3.50	
		31.3						RE	6.592	5.658	4.955	
								t	26.29	24.65	23.53	
								Z	0.384	0.449	0.515	
								pHS	3.881	3.996	4.108	
	3.75	4.00	4.00		4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	4.354	3.837	3.624		3.363	3.127	2.941	2.907	2.795	2.719	2.689	2.663
	22.68	22.07	19.22		18.98	18.80	18.66	21.43	21.36	21.31	18.77	18.75
	0.588	0.670	0.715		0.772	0.832	0.887	0.896	0.933	0.959	0.976	0.986
	4.235	4.386	4.476		4.606	4.770	4.967	5.010	5.218	5.446	5.689	5.916
	6.00	6.25	6.50		6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.646	2.634	2.618	2.614	2.611	2.608	2.629	2.628	2.626	2.623	2.627		
18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75		
0.992	0.995	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000		
6.157	6.403	6.712	6.960	7.209	7.458	7.651	7.901	8.151	8.401	8.653		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3, 1						
2.625	2.622	2.619	2.610	2.607	2.601							
18.79	18.86	18.98	24.28	24.83	25.91							
1.000	1.000	1.000	1.000	1.000	1.000							
8.903	9.154	9.406	9.710	9.966	10.226							
96	2,5-DINITROPHENOL -1			5.216	C6H4N2O5 184.11			pHL	3.00	3.25	3.50	
		31.3						RE	18.229	15.122	12.792	
								t	25.28	24.01	23.14	
								Z	0.136	0.164	0.194	
								pHS	4.397	4.493	4.581	
	3.75	4.00	4.00		4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	10.752	8.904	7.235		6.453	5.638	4.860	4.523	4.022	3.581	3.123	2.980
	22.47	21.95	19.02		18.88	18.76	18.66	21.36	21.32	21.29	18.76	18.75
	0.232	0.281	0.350		0.393	0.451	0.526	0.566	0.639	0.720	0.835	0.876
	4.677	4.787	4.923		5.002	5.104	5.232	5.302	5.433	5.594	5.885	6.030
	6.00	6.25	6.50		6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.854	2.762	2.679	2.651	2.632	2.620	2.637	2.632	2.628	2.624	2.628		
18.74	18.74	26.16	26.16	26.15	26.15	18.70	18.71	18.71	18.73	18.75		
0.916	0.947	0.974	0.984	0.991	0.995	0.997	0.998	0.999	0.999	1.000		
6.217	6.434	6.752	6.976	7.215	7.461	7.656	7.903	8.152	8.401	8.653		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3, 1						
2.625	2.622	2.619	2.611	2.607	2.601							
18.79	18.86	18.98	24.28	24.83	25.91							
1.000	1.000	1.000	1.000	1.000	1.000							
8.904	9.154	9.406	9.710	9.966	10.226							

97	2.6-DINITROPHENOL -1 31.3			3.706	C6H4N2O5 184.11			pHL RE t Z pHS	3.00	3.25	3.50		
										4.911	4.317	3.873	
										26.94	25.03	23.74	
										0.521	0.594	0.664	
										3.714	3.842	3.971	
	3.75	4.00	4.00		4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	3.505	3.206	3.140		2.980	2.850	2.758		2.744	2.690	2.656	2.653	2.641
	22.79	22.11	19.31		19.02	18.81	18.66		21.44	21.36	21.31	18.77	18.75
	0.736	0.807	0.830		0.876	0.917	0.948		0.952	0.971	0.983	0.990	0.994
	4.119	4.294	4.359		4.518	4.711	4.930		4.966	5.194	5.433	5.668	5.907
	6.00	6.25	6.50		6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
2.633	2.627	2.614	2.612	2.610	2.607	2.629	2.627	2.626	2.623	2.627			
18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75			
0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
6.153	6.402	6.710	6.959	7.208	7.458	7.651	7.901	8.151	8.401	8.653			
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1							
2.625	2.622	2.619	2.610	2.607	2.601								
18.79	18.86	18.98	24.28	24.83	25.91								
1.000	1.000	1.000	1.000	1.000	1.000								
8.903	9.154	9.406	9.710	9.966	10.226								
98	3.4-DINITROPHENOL -1 31.3			5.424	C6H4N2O5 184.11			pHL RE t Z pHS	3.00	3.25	3.50		
										22.598	18.690	15.762	
										25.19	23.95	23.10	
										0.109	0.132	0.157	
										4.498	4.592	4.679	
	3.75	4.00	4.00		4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	13.196	10.865	8.613		7.652	6.642	5.664		5.187	4.560	3.991	3.316	3.139
	22.44	21.94	19.00		18.87	18.75	18.66		21.35	21.31	21.28	18.76	18.75
	0.188	0.229	0.292		0.330	0.381	0.449		0.491	0.561	0.643	0.784	0.830
	4.772	4.879	5.018		5.093	5.189	5.308		5.382	5.501	5.649	5.950	6.078
	6.00	6.25	6.50		6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
2.971	2.838	2.715	2.674	2.646	2.628	2.642	2.635	2.630	2.626	2.628			
18.75	18.74	26.16	26.16	26.15	26.15	18.70	18.71	18.71	18.73	18.75			
0.879	0.921	0.960	0.975	0.985	0.992	0.995	0.997	0.998	0.999	0.999			
6.247	6.451	6.774	6.986	7.220	7.463	7.660	7.904	8.152	8.401	8.654			
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1							
2.625	2.623	2.619	2.611	2.607	2.601								
18.79	18.86	18.98	24.28	24.83	25.91								
1.000	1.000	1.000	1.000	1.000	1.000								
8.904	9.154	9.406	9.710	9.966	10.226								
99	3.5-DINITROPHENOL -1 31.3			6.699	C6H4N2O5 184.11			pHL RE t Z pHS	3.00	3.25	3.50		
										91.107	74.708	62.465	
										24.90	23.76	22.97	
										0.027	0.032	0.039	
										5.129	5.218	5.298	
	3.75	4.00	4.00		4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	51.713	41.886	30.334		26.656	22.695	18.729		15.913	13.504	11.147	6.575	6.033
	22.35	21.88	18.94		18.84	18.75	18.66		21.28	21.25	21.23	18.76	18.76
	0.047	0.058	0.081		0.092	0.108	0.132		0.156	0.184	0.223	0.386	0.421
	5.383	5.480	5.632		5.693	5.770	5.865		5.949	6.035	6.139	6.472	6.536
	6.00	6.25	6.50		6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
5.390	4.722	3.536	3.333	3.123	2.941	2.826	2.755	2.702	2.667	2.652			
18.75	18.75	26.08	26.10	26.11	26.12	18.71	18.71	18.72	18.73	18.75			
0.473	0.542	0.729	0.775	0.829	0.882	0.927	0.952	0.970	0.983	0.990			
6.625	6.743	7.098	7.204	7.351	7.537	7.766	7.955	8.175	8.412	8.663			
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3							
2.639	2.630	2.624	2.613	2.608	2.602								
18.79	18.86	18.98	24.28	24.83	25.92								
0.994	0.997	0.998	0.999	1.000	1.000								
8.908	9.156	9.407	9.711	9.966	10.227								

100	DIPHENYLACETIC ACID			C14H12O2			pHL	3.00	3.25	3.50
	-1	26.2	3.939	212.20			RE	6.729	5.853	5.190
							t	30.24	28.06	26.57
							Z	0.455	0.525	0.594
							pHS	3.835	3.956	4.076
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	4.629	4.160	4.034	3.784	3.571	3.413	3.384	3.290	3.230	3.221
	25.47	24.69	21.31	20.99	20.74	20.58	23.92	23.83	23.77	20.71
	0.668	0.747	0.777	0.830	0.881	0.923	0.930	0.957	0.974	0.985
	4.214	4.378	4.448	4.594	4.775	4.985	5.027	5.248	5.483	5.716
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	3.185	3.175	3.153	3.149	3.145	3.141	3.175	3.173	3.170	3.167
	20.68	20.67	29.63	29.62	29.61	29.60	20.64	20.64	20.65	20.66
	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.196	6.443	6.763	7.011	7.260	7.510	7.692	7.942	8.192	8.442
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 7			
	3.169	3.165	3.160	3.145	3.139	3.130				
	20.76	20.86	21.04	27.59	28.49	30.34				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.946	9.197	9.449	9.769	10.027	10.295				
101	DIPROPYLMALONIC ACID			C9H16O4			pHL	3.00	3.25	3.50
	-1	23.0	2.067	188.22			RE	3.743	3.697	3.666
	-2	46.0	7.510				t	36.55	32.53	29.94
							Z	0.964	0.976	0.985
							pHS	3.458	3.646	3.837
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	3.645	3.630	3.658	3.648	3.638	3.626	3.616	3.601	3.578	3.579
	28.21	27.12	23.42	22.86	22.51	22.33	26.19	26.13	26.16	22.82
	0.991	0.995	0.995	0.998	1.000	1.003	1.003	1.006	1.012	1.021
	4.047	4.274	4.282	4.498	4.733	4.976	5.013	5.259	5.506	5.745
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	3.442	3.316	2.992	2.803	2.605	2.417	2.275	2.175	2.095	2.038
	23.55	24.27	36.53	37.70	38.92	40.09	30.52	31.12	31.59	31.93
	1.064	1.108	1.231	1.322	1.432	1.554	1.693	1.779	1.854	1.909
	6.237	6.481	6.879	7.073	7.272	7.480	7.728	7.918	8.134	8.367
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 7			
	1.985	1.970	1.960	1.941	1.934	1.928				
	32.34	32.48	32.66	40.26	40.79	41.79				
	1.969	1.982	1.990	1.995	1.997	1.998				
	8.858	9.104	9.353	9.636	9.888	10.142				
102	DITHIONIC ACID			H2S2O6			pHL	3.00	3.25	3.50
	-1	48.2	0.200	162.13			RE	1.208	1.114	1.039
	-2	96.4	3.400				t	28.62	27.30	26.79
							Z	1.421	1.550	1.671
							pHS	3.118	3.340	3.557
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	0.983	0.944	0.943	0.920	0.904	0.895	0.894	0.888	0.885	0.885
	26.62	26.60	24.87	24.88	24.91	24.93	26.76	26.78	26.79	25.11
	1.775	1.855	1.862	1.914	1.948	1.970	1.970	1.983	1.990	1.995
	3.780	4.013	4.036	4.264	4.503	4.748	4.748	4.994	5.242	5.496
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	0.884	0.883	0.880	0.880	0.879	0.879	0.883	0.883	0.883	0.883
	25.12	25.12	30.06	30.06	30.05	30.05	25.09	25.09	25.10	25.11
	1.998	1.999	1.999	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	5.994	6.243	6.487	6.736	6.986	7.236	7.493	7.743	7.993	8.243
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 8			
	0.883	0.883	0.883	0.880	0.880	0.879				
	25.12	25.15	25.19	28.52	28.64	28.86				
	2.000	2.000	2.000	2.000	2.000	2.000				
	8.743	8.993	9.243	9.487	9.737	9.987				

103	DITHIONOUS -1 -2	ACID 34.5 68.9	0.300 2.500		H2S2O4 130.13		pHL RE t Z pHS	3.00 1.349 38.20 1.852 3.110	3.25 1.313 34.76 1.906 3.334	3.50 1.290 32.73 1.943 3.563	
	3.75 1.276 31.53 1.966 3.800	4.00 1.267 30.83 1.980 4.043	4.00 1.274 28.34 1.981 4.048	4.25 1.269 27.95 1.989 4.289	4.50 1.265 27.72 1.994 4.535	4.75 1.263 27.60 1.996 4.784	4.75 1.260 30.24 1.996 4.790	5.00 1.258 30.17 1.998 5.039	5.25 1.256 30.13 1.999 5.288	5.50 1.263 27.71 1.999 5.534	5.75 1.263 27.70 2.000 5.783
	6.00 1.262 27.69 2.000 6.033	6.25 1.261 27.69 2.000 6.283	6.50 1.254 34.75 2.000 6.546	6.75 1.254 34.74 2.000 6.796	7.00 1.252 34.73 2.000 7.046	7.25 1.251 34.72 2.000 7.295	7.50 1.263 27.65 2.000 7.533	7.75 1.263 27.65 2.000 7.783	8.00 1.262 27.65 2.000 8.033	8.25 1.261 27.66 2.000 8.283	8.50 1.262 27.67 2.000 8.533
	8.75 1.262 27.69 2.000 8.783	9.00 1.261 27.73 2.000 9.034	9.25 1.260 27.80 2.000 9.284	9.50 1.254 32.60 2.000 9.544	9.75 1.253 32.82 2.000 9.794	10.00 1.251 33.23 2.000 10.045	(Ref.) : 2 , 8				
104	DODECYLSULFONIC -1	ACID 24.9	1.000		C12H26O3S 250.40		pHL RE t Z pHS	3.00 3.334 34.69 0.996 3.407	3.25 3.330 30.80 0.998 3.604	3.50 3.327 28.32 0.999 3.803	
	3.75 3.325 26.69 0.999 4.018	4.00 3.323 25.67 0.999 4.249	4.00 3.348 22.28 0.999 4.254	4.25 3.346 21.74 1.000 4.474	4.50 3.344 21.41 1.000 4.711	4.75 3.340 21.21 1.000 4.955	4.75 3.333 24.76 1.000 4.989	5.00 3.329 24.64 1.000 5.235	5.25 3.326 24.57 1.000 5.484	5.50 3.351 21.35 1.000 5.707	5.75 3.349 21.32 1.000 5.955
	6.00 3.346 21.31 1.000 6.204	6.25 3.342 21.30 1.000 6.454	6.50 3.322 30.75 1.000 6.776	6.75 3.320 30.74 1.000 7.026	7.00 3.317 30.73 1.000 7.275	7.25 3.313 30.72 1.000 7.525	7.50 3.352 21.26 1.000 7.705	7.75 3.349 21.27 1.000 7.955	8.00 3.346 21.28 1.000 8.205	8.25 3.343 21.30 1.000 8.455	8.50 3.349 21.34 1.000 8.708
	8.75 3.345 21.40 1.000 8.959	9.00 3.341 21.51 1.000 9.210	9.25 3.336 21.72 1.000 9.463	9.50 3.318 28.69 1.000 9.787	9.75 3.311 29.73 1.000 10.047	10.00 3.300 31.93 1.000 10.317	(Ref.) : 2 , 12				
105	ENANTHYLIC -1	ACID 28.4	4.893		C7H14O2 130.19		pHL RE t Z pHS	3.00 14.349 27.30 0.192 4.251	3.25 11.979 25.76 0.230 4.351	3.50 10.194 24.71 0.271 4.444	
	3.75 8.638 23.91 0.321 4.547	4.00 7.241 23.31 0.385 4.667	4.00 6.209 20.09 0.454 4.787	4.25 5.574 19.92 0.507 4.879	4.50 4.933 19.76 0.575 4.996	4.75 4.346 19.64 0.656 5.142	4.75 4.147 22.66 0.688 5.206	5.00 3.769 22.61 0.759 5.360	5.25 3.462 22.57 0.829 5.545	5.50 3.219 19.77 0.901 5.815	5.75 3.114 19.76 0.932 5.993
	6.00 3.033 19.75 0.957 6.206	6.25 2.979 19.75 0.974 6.438	6.50 2.927 27.97 0.988 6.756	6.75 2.911 27.97 0.993 6.994	7.00 2.900 27.96 0.996 7.239	7.25 2.892 27.95 0.998 7.487	7.50 2.918 19.71 0.998 7.675	7.75 2.915 19.71 0.999 7.924	8.00 2.911 19.72 1.000 8.173	8.25 2.908 19.74 1.000 8.423	8.50 2.912 19.76 1.000 8.676
	8.75 2.909 19.81 1.000 8.926	9.00 2.906 19.90 1.000 9.177	9.25 2.902 20.05 1.000 9.429	9.50 2.890 25.99 1.000 9.741	9.75 2.885 26.71 1.000 9.998	10.00 2.878 28.15 1.000 10.262	(Ref.) : 2 , 7				

106	o-ETHOXYBENZOIC ACID			C9H10O3				pHL RE t Z pHS	3.00 8.187 29.45 0.365 3.946	3.25 7.011 27.48 0.428 4.058	3.50 6.121 26.13 0.492 4.169				
	-1	26.6	4.208	166.18											
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	5.357	4.697	4.433	4.095	3.787	3.542	3.493					3.344	3.243	3.205	3.170
	25.13	24.41	21.03	20.76	20.55	20.39	23.67					23.59	23.54	20.53	20.51
	0.565	0.647	0.692	0.751	0.815	0.873	0.885					0.925	0.954	0.973	0.984
	4.294	4.442	4.529	4.656	4.818	5.011	5.058					5.264	5.490	5.729	5.955
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	3.147	3.131	3.106	3.101	3.097	3.092	3.125					3.123	3.120	3.116	3.122
	20.50	20.49	29.31	29.30	29.29	29.28	20.45					20.46	20.47	20.48	20.52
	0.991	0.995	0.997	0.999	0.999	0.999	1.000					1.000	1.000	1.000	1.000
	6.195	6.441	6.760	7.007	7.256	7.505	7.689					7.938	8.188	8.438	8.691
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 2								
3.118	3.115	3.110	3.096	3.090	3.081										
20.57	20.67	20.85	27.28	28.14	29.90										
1.000	1.000	1.000	1.000	1.000	1.000										
8.942	9.193	9.445	9.763	10.022	10.288										
107	p-ETHOXYBENZOIC ACID			C9H10O3				pHL RE t Z pHS	3.00 13.806 28.73 0.214 4.212	3.25 11.558 27.01 0.256 4.314	3.50 9.861 25.84 0.301 4.410				
	-1	26.6	4.796	166.18											
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	8.384	7.064	6.179	5.560	4.945	4.393	4.221					3.867	3.588	3.391	3.294
	24.95	24.30	20.87	20.67	20.50	20.37	23.61					23.56	23.52	20.52	20.51
	0.355	0.424	0.490	0.546	0.616	0.697	0.725					0.794	0.858	0.917	0.945
	4.515	4.639	4.752	4.848	4.972	5.126	5.187					5.351	5.544	5.805	5.994
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	3.223	3.176	3.128	3.113	3.104	3.096	3.127					3.124	3.120	3.117	3.122
	20.50	20.49	29.30	29.30	29.29	29.28	20.45					20.46	20.47	20.48	20.52
	0.966	0.980	0.990	0.994	0.997	0.998	0.999					0.999	1.000	1.000	1.000
	6.214	6.450	6.771	7.011	7.258	7.506	7.690					7.939	8.189	8.439	8.691
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 2								
3.119	3.115	3.110	3.096	3.090	3.081										
20.57	20.67	20.85	27.28	28.14	29.90										
1.000	1.000	1.000	1.000	1.000	1.000										
8.942	9.193	9.445	9.763	10.022	10.288										
108	o-ETHYLBENZOIC ACID			C9H10O2				pHL RE t Z pHS	3.00 6.008 30.26 0.505 3.776	3.25 5.274 27.99 0.577 3.901	3.50 4.721 26.46 0.647 4.028				
	-1	26.5	3.793	150.18											
	3.75	4.00	4.00	4.25	4.50	4.75	4.75					5.00	5.25	5.50	5.75
	4.258	3.879	3.801	3.596	3.428	3.307	3.286					3.215	3.170	3.169	3.153
	25.33	24.53	21.21	20.87	20.61	20.44	23.75					23.66	23.60	20.58	20.56
	0.720	0.793	0.816	0.864	0.908	0.942	0.947					0.968	0.981	0.989	0.994
	4.173	4.345	4.407	4.563	4.754	4.971	5.012					5.238	5.477	5.707	5.946
	6.00	6.25	6.50	6.75	7.00	7.25	7.50					7.75	8.00	8.25	8.50
	3.142	3.134	3.114	3.111	3.108	3.104	3.137					3.135	3.132	3.129	3.134
	20.54	20.54	29.39	29.38	29.37	29.36	20.50					20.50	20.51	20.53	20.56
	0.996	0.998	0.999	0.999	1.000	1.000	1.000					1.000	1.000	1.000	1.000
	6.192	6.440	6.759	7.007	7.257	7.506	7.689					7.939	8.189	8.439	8.692
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1								
3.131	3.127	3.123	3.108	3.102	3.093										
20.62	20.72	20.90	27.35	28.22	30.01										
1.000	1.000	1.000	1.000	1.000	1.000										
8.943	9.194	9.446	9.765	10.023	10.290										

109	p-ETHYLBENZOIC ACID -1 26.5 4.353			C9H10O2 150.18			pHL	3.00	3.25	3.50	
						RE	9.270	7.886	6.837		
						t	29.32	27.41	26.12		
						Z	0.323	0.381	0.441		
						pHS	4.010	4.119	4.225		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	5.933	5.142	4.772	4.374	4.004	3.698	3.630	3.441	3.308	3.247	3.201
	25.14	24.44	21.04	20.79	20.58	20.43	23.72	23.64	23.59	20.57	20.55
	0.510	0.591	0.644	0.704	0.772	0.838	0.853	0.901	0.938	0.964	0.978
	4.345	4.486	4.580	4.698	4.850	5.033	5.084	5.280	5.500	5.743	5.962
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.170	3.150	3.122	3.115	3.110	3.105	3.138	3.135	3.132	3.129	3.134
	20.54	20.54	29.39	29.38	29.37	29.36	20.50	20.50	20.51	20.53	20.56
	0.987	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000
	6.199	6.443	6.763	7.009	7.257	7.507	7.690	7.939	8.189	8.439	8.692
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1				
	3.131	3.127	3.123	3.108	3.102	3.093					
	20.62	20.72	20.90	27.35	28.22	30.01					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.943	9.194	9.446	9.765	10.023	10.290					
110	2-ETHYLBUTYRIC ACID -1 30.2 4.734			C6H12O6 180.16			pHL	3.00	3.25	3.50	
						RE	11.701	9.808	8.383		
						t	26.25	24.80	23.80		
						Z	0.222	0.265	0.311		
						pHS	4.169	4.271	4.367		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	7.143	6.033	5.257	4.746	4.237	3.778	3.639	3.346	3.114	2.948	2.869
	23.04	22.47	19.45	19.28	19.13	19.01	21.85	21.79	21.76	19.12	19.11
	0.366	0.436	0.505	0.561	0.631	0.710	0.737	0.804	0.866	0.923	0.949
	4.473	4.596	4.715	4.811	4.936	5.090	5.150	5.314	5.509	5.773	5.963
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.811	2.773	2.736	2.724	2.716	2.711	2.733	2.730	2.728	2.725	2.728
	19.10	19.10	26.81	26.80	26.80	26.79	19.06	19.06	19.07	19.09	19.11
	0.968	0.981	0.991	0.995	0.997	0.998	0.999	0.999	1.000	1.000	1.000
	6.183	6.420	6.734	6.974	7.221	7.469	7.661	7.909	8.159	8.409	8.661
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 7				
	2.726	2.723	2.720	2.710	2.706	2.700					
	19.15	19.23	19.36	24.89	25.49	26.69					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.912	9.162	9.414	9.721	9.977	10.239					
111	ETHYLFUMARIC ACID -1 29.2 3.325			C6H8O4 144.13			pHL	3.00	3.25	3.50	
						RE	4.166	3.778	3.493		
						t	29.05	26.66	25.05		
						Z	0.665	0.735	0.797		
						pHS	3.592	3.737	3.886		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.268	3.098	3.092	2.998	2.928	2.882	2.873	2.847	2.830	2.840	2.834
	23.89	23.11	20.16	19.79	19.53	19.37	22.36	22.27	22.22	19.48	19.46
	0.854	0.902	0.910	0.940	0.962	0.978	0.979	0.988	0.993	0.996	0.998
	4.058	4.256	4.295	4.481	4.696	4.929	4.962	5.200	5.445	5.675	5.919
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.829	2.824	2.811	2.808	2.806	2.803	2.829	2.828	2.826	2.823	2.827
	19.45	19.45	27.44	27.43	27.43	27.42	19.41	19.42	19.42	19.44	19.46
	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.167	6.416	6.729	6.978	7.228	7.478	7.666	7.916	8.166	8.416	8.669
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.825	2.822	2.818	2.807	2.803	2.796					
	19.51	19.59	19.73	25.48	26.15	27.47					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.919	9.170	9.422	9.732	9.989	10.252					

112	3-ETHYLGLUTARIC ACID				C7H12O4			pHL	3.00	3.25	3.50
	-1	25.0	4.287	160.17	RE	8.621	7.242	6.187			
	-2	50.0	5.329		t	31.56	29.74	28.64			
					Z	0.371	0.443	0.522			
					pHS	3.980	4.089	4.195			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	5.266	4.443	3.998	3.561	3.132	2.749	2.654	2.391	2.179	2.018	1.938
	28.00	27.83	24.66	25.01	25.64	26.53	30.41	31.35	32.29	29.92	30.36
	0.617	0.737	0.831	0.939	1.077	1.239	1.284	1.437	1.589	1.748	1.828
	4.313	4.452	4.554	4.670	4.817	4.991	5.043	5.222	5.424	5.696	5.889
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.877	1.837	1.798	1.784	1.775	1.768	1.793	1.791	1.788	1.785	1.789
	30.70	30.93	41.07	41.13	41.16	41.16	31.22	31.23	31.24	31.25	31.27
	1.891	1.935	1.965	1.980	1.988	1.993	1.996	1.998	1.999	1.999	2.000
	6.110	6.346	6.636	6.874	7.120	7.367	7.586	7.834	8.084	8.334	8.585
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 7				
	1.787	1.784	1.781	1.769	1.765	1.761					
	31.31	31.37	31.49	38.37	38.80	39.61					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.835	9.085	9.335	9.614	9.866	10.119					
113	ETHYLMALEIC ACID				C6H8O4			pHL	3.00	3.25	3.50
	-1	29.2	2.959	144.13	RE	3.543	3.313	3.149			
					t	29.75	27.02	25.21			
					Z	0.786	0.843	0.888			
					pHS	3.492	3.654	3.823			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.027	2.941	2.952	2.904	2.870	2.848	2.841	2.828	2.819	2.834	2.830
	23.95	23.13	20.22	19.80	19.53	19.37	22.36	22.27	22.22	19.48	19.46
	0.925	0.953	0.955	0.972	0.983	0.990	0.991	0.995	0.997	0.998	0.999
	4.014	4.229	4.251	4.455	4.682	4.922	4.953	5.196	5.443	5.671	5.918
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.827	2.823	2.810	2.808	2.806	2.803	2.829	2.828	2.826	2.823	2.827
	19.45	19.45	27.44	27.43	27.43	27.42	19.41	19.42	19.42	19.44	19.46
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.167	6.416	6.729	6.978	7.228	7.478	7.666	7.916	8.166	8.416	8.669
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.825	2.822	2.818	2.807	2.803	2.796					
	19.51	19.59	19.73	25.48	26.15	27.47					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.919	9.170	9.422	9.732	9.989	10.252					
114	ETHYLMALONIC ACID				C5H8O4			pHL	3.00	3.25	3.50
	-1	25.5	2.988	132.12	RE	4.032	3.769	3.575			
	-2	51.0	5.833		t	32.91	29.86	27.87			
					Z	0.797	0.854	0.903			
					pHS	3.534	3.695	3.862			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.418	3.285	3.291	3.182	3.054	2.896	2.857	2.670	2.465	2.225	2.096
	26.57	25.87	22.53	22.43	22.72	23.42	27.11	28.17	29.43	27.90	28.72
	0.946	0.987	0.993	1.029	1.075	1.138	1.153	1.241	1.353	1.530	1.634
	4.051	4.264	4.296	4.499	4.723	4.956	5.003	5.227	5.451	5.754	5.936
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.982	1.894	1.811	1.779	1.756	1.741	1.761	1.756	1.752	1.748	1.751
	29.45	30.02	40.22	40.42	40.54	40.60	30.91	30.94	30.96	30.97	31.00
	1.737	1.825	1.903	1.940	1.964	1.979	1.988	1.993	1.996	1.998	1.999
	6.140	6.363	6.663	6.884	7.121	7.366	7.586	7.832	8.081	8.330	8.581
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 7				
	1.749	1.746	1.743	1.732	1.728	1.724					
	31.04	31.10	31.21	37.94	38.36	39.13					
	1.999	2.000	2.000	2.000	2.000	2.000					
	8.831	9.081	9.332	9.609	9.861	10.114					



115	ETHYLPROPYLMALONIC ACID				C8H14O4		pHL	3.00	3.25	3.50
	-1	23.5	2.145		174.20		RE	3.685	3.631	3.595
	-2	47.0	7.430				t	35.92	32.01	29.48
							Z	0.957	0.971	0.982
							pHS	3.454	3.641	3.832
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	3.570	3.552	3.579	3.567	3.556	3.543	3.532	3.515	3.490	3.485
	27.79	26.72	23.10	22.56	22.22	22.05	25.83	25.78	25.83	22.60
	0.989	0.994	0.994	0.997	1.000	1.003	1.004	1.008	1.014	1.025
	4.041	4.269	4.276	4.493	4.727	4.971	5.007	5.253	5.500	5.743
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	3.331	3.193	2.855	2.672	2.484	2.310	2.185	2.096	2.027	1.978
	23.45	24.26	36.44	37.60	38.78	39.88	30.44	30.98	31.40	31.69
	1.076	1.126	1.265	1.360	1.472	1.593	1.725	1.806	1.873	1.922
	6.233	6.475	6.874	7.063	7.260	7.467	7.713	7.906	8.126	8.360
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 7			
	1.934	1.922	1.913	1.896	1.889	1.883				
	32.05	32.17	32.34	39.75	40.26	41.20				
	1.974	1.985	1.991	1.995	1.997	1.999				
	8.852	9.099	9.348	9.631	9.882	10.136				
116	ETHYLSULFONIC ACID				C2H6O3S		pHL	3.00	3.25	3.50
	-1	41.0	-2.000		110.13		RE	1.971	1.921	1.971
							t	25.06	22.34	20.69
							Z	1.000	1.000	1.000
							pHS	3.219	3.435	3.653
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	1.970	1.970	1.977	1.976	1.975	1.974	1.973	1.972	1.971	1.977
	19.66	19.04	17.04	16.71	16.51	16.40	18.49	18.43	18.39	16.47
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.882	4.121	4.124	4.357	4.600	4.847	4.866	5.113	5.363	5.598
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.976	1.975	1.971	1.970	1.969	1.968	1.978	1.978	1.977	1.975
	16.45	16.45	22.05	22.05	22.04	22.04	16.42	16.42	16.43	16.44
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.096	6.346	6.637	6.887	7.137	7.386	7.596	7.846	8.096	8.346
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12			
	1.976	1.975	1.973	1.970	1.968	1.966				
	16.47	16.51	16.59	20.48	20.77	21.31				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.848	9.098	9.349	9.634	9.887	10.142				
117	FLUOROACETIC ACID				C2H3FO2		pHL	3.00	3.25	3.50
	-1	46.0	2.584		78.04		RE	2.051	1.946	1.875
							t	22.62	20.62	19.34
							Z	0.849	0.896	0.931
							pHS	3.296	3.481	3.672
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	1.826	1.793	1.797	1.779	1.767	1.760	1.759	1.754	1.751	1.755
	18.49	17.96	16.17	15.89	15.72	15.62	17.48	17.42	17.39	15.68
	0.956	0.974	0.975	0.985	0.991	0.995	0.995	0.997	0.998	0.999
	3.882	4.110	4.128	4.348	4.585	4.829	4.846	5.092	5.340	5.579
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.753	1.752	1.749	1.748	1.748	1.747	1.754	1.753	1.753	1.752
	15.67	15.66	20.63	20.63	20.63	20.63	15.63	15.64	15.64	15.65
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.076	6.326	6.609	6.859	7.109	7.359	7.576	7.826	8.076	8.326
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1			
	1.752	1.751	1.750	1.748	1.747	1.745				
	15.68	15.71	15.77	19.20	19.42	19.83				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.827	9.077	9.328	9.606	9.858	10.112				

118	m-FLUOROBENZOIC ACID				C7H5F02						
	-1	33.4	3.865		140.11		pH	3.00	3.25	3.50	
							RE	5.181	4.502	3.993	
							t	25.48	23.83	22.71	
							Z	0.460	0.531	0.600	
							pHS	3.768	3.890	4.011	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.565	3.207	3.095	2.909	2.751	2.633	2.615	2.546	2.501	2.488	2.473
	21.87	21.27	18.62	18.38	18.19	18.06	20.64	20.57	20.53	18.15	18.14
	0.674	0.752	0.785	0.836	0.886	0.927	0.932	0.958	0.975	0.986	0.992
	4.150	4.314	4.392	4.538	4.719	4.929	4.967	5.187	5.422	5.661	5.896
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.463	2.456	2.444	2.441	2.439	2.436	2.455	2.453	2.452	2.450	2.453
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	18.13
	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.141	6.388	6.693	6.941	7.190	7.440	7.637	7.887	8.137	8.387	8.639
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 3 , 1				
	2.451	2.449	2.446	2.439	2.436	2.432					
	18.16	18.22	18.33	23.25	23.72	24.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.889	9.140	9.391	9.691	9.945	10.204					
119	o-FLUOROBENZOIC ACID				C7H5F02						
	-1	33.4	3.267		140.11		pH	3.00	3.25	3.50	
							RE	3.588	3.255	3.012	
							t	26.53	24.42	23.00	
							Z	0.672	0.742	0.804	
							pHS	3.546	3.693	3.845	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.821	2.679	2.671	2.593	2.536	2.498	2.492	2.470	2.456	2.463	2.458
	21.99	21.31	18.75	18.42	18.19	18.06	20.65	20.58	20.53	18.15	18.14
	0.860	0.907	0.915	0.943	0.965	0.979	0.980	0.989	0.993	0.996	0.998
	4.019	4.220	4.260	4.448	4.665	4.899	4.928	5.167	5.412	5.645	5.890
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.454	2.451	2.441	2.440	2.438	2.436	2.454	2.453	2.451	2.450	2.453
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	18.13
	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.138	6.387	6.691	6.940	7.190	7.440	7.637	7.887	8.137	8.387	8.639
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 3 , 1				
	2.451	2.449	2.446	2.439	2.436	2.432					
	18.16	18.22	18.33	23.25	23.72	24.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.889	9.140	9.391	9.691	9.945	10.204					
120	p-FLUOROBENZOIC ACID				C7H5F02						
	-1	34.2	4.142		140.11		pH	3.00	3.25	3.50	
							RE	6.264	5.362	4.684	
							t	24.69	23.24	22.26	
							Z	0.369	0.432	0.496	
							pHS	3.884	3.997	4.108	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	4.103	3.601	3.370	3.121	2.893	2.710	2.677	2.566	2.490	2.455	2.429
	21.50	20.95	18.34	18.13	17.96	17.85	20.36	20.30	20.26	17.94	17.92
	0.568	0.650	0.700	0.758	0.819	0.876	0.887	0.926	0.955	0.974	0.984
	4.232	4.380	4.477	4.602	4.763	4.955	4.999	5.202	5.428	5.675	5.900
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.412	2.401	2.387	2.383	2.380	2.377	2.394	2.393	2.391	2.389	2.392
	17.91	17.91	24.68	24.68	24.67	24.67	17.87	17.88	17.88	17.90	17.91
	0.991	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.139	6.385	6.689	6.935	7.184	7.434	7.632	7.882	8.132	8.382	8.634
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 2 , 1				
	2.391	2.389	2.386	2.380	2.377	2.372					
	17.95	18.00	18.11	22.89	23.33	24.18					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.884	9.135	9.386	9.684	9.938	10.197					

121	FORMIC ACID	(S)			CH202			pHL	3.00	3.25	3.50
	-1	56.6	3.752		46.03			RE	2.988	2.593	2.300
								t	18.60	17.73	17.12
								Z	0.464	0.536	0.605
								pHS	3.659	3.782	3.904
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.055	1.850	1.766	1.666	1.579	1.514	1.508	1.469	1.445	1.432	1.424
	16.66	16.32	14.77	14.63	14.52	14.45	15.93	15.90	15.87	14.49	14.48
	0.679	0.756	0.795	0.844	0.891	0.930	0.934	0.959	0.976	0.986	0.992
	4.042	4.205	4.301	4.445	4.626	4.836	4.863	5.080	5.315	5.569	5.803
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.419	1.416	1.413	1.412	1.411	1.410	1.413	1.413	1.413	1.412	1.413
	14.48	14.48	18.48	18.48	18.48	18.48	14.45	14.45	14.46	14.46	14.47
	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.047	6.295	6.566	6.814	7.063	7.313	7.545	7.793	8.043	8.293	8.544
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1				
	1.413	1.412	1.412	1.411	1.410	1.409					
	14.48	14.51	14.55	17.28	17.43	17.69					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.794	9.044	9.294	9.561	9.812	10.063					
122	FUMARIC ACID				C4H404			pHL	3.00	3.25	3.50
	-1	31.0	3.019		116.07			RE	2.995	2.666	2.400
	-2	61.2	4.384					t	30.64	28.88	28.13
								Z	0.886	1.002	1.122
								pHS	3.471	3.630	3.792
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.164	1.956	1.912	1.777	1.663	1.577	1.566	1.511	1.475	1.464	1.451
	28.06	28.50	25.95	26.51	27.10	27.60	30.62	30.97	31.21	28.65	28.74
	1.255	1.402	1.449	1.571	1.691	1.794	1.802	1.874	1.924	1.956	1.974
	3.971	4.169	4.232	4.411	4.614	4.836	4.859	5.084	5.321	5.572	5.809
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.443	1.438	1.426	1.424	1.422	1.419	1.436	1.435	1.434	1.433	1.435
	28.78	28.81	36.86	36.86	36.85	36.84	28.81	28.82	28.82	28.83	28.85
	1.985	1.992	1.995	1.997	1.999	1.999	2.000	2.000	2.000	2.000	2.000
	6.054	6.302	6.573	6.821	7.071	7.320	7.550	7.800	8.050	8.300	8.551
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1				
	1.434	1.432	1.431	1.423	1.421	1.419					
	28.87	28.92	29.00	34.48	34.76	35.27					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.801	9.051	9.301	9.568	9.819	10.070					
123	GALLIC ACID				C7H605			pHL	3.00	3.25	3.50
	-1	34.4	4.469		170.12			RE	8.212	6.938	5.980
								t	24.23	22.94	22.05
								Z	0.278	0.330	0.384
								pHS	4.032	4.138	4.238
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	5.149	4.412	3.948	3.604	3.267	2.975	2.905	2.721	2.584	2.499	2.452
	21.37	20.85	18.22	18.05	17.91	17.80	20.28	20.23	20.19	17.88	17.87
	0.447	0.524	0.590	0.649	0.717	0.790	0.809	0.866	0.913	0.950	0.968
	4.350	4.482	4.597	4.703	4.840	5.009	5.062	5.242	5.451	5.710	5.916
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.420	2.399	2.379	2.372	2.368	2.364	2.380	2.379	2.377	2.375	2.378
	17.86	17.86	24.59	24.58	24.58	24.57	17.82	17.83	17.83	17.84	17.86
	0.981	0.989	0.995	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000
	6.146	6.387	6.692	6.936	7.183	7.432	7.652	7.881	8.131	8.381	8.632
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.376	2.374	2.372	2.365	2.362	2.358					
	17.89	17.95	18.06	22.80	23.24	24.08					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.883	9.133	9.385	9.682	9.936	10.195					

124	GLUCONIC ACID -1	27.2	3.662	C6H12O7 196.16	pHL RE t Z pHS	3.00 5.387 29.92 0.550 3.722	3.25 4.769 27.63 0.623 3.852	3.50 4.306 26.07 0.692 3.984			
	3.75 3.924 24.93 0.762 4.137	4.00 3.617 24.14 0.830 4.317	4.00 3.569 20.92 0.847 4.372	4.25 3.402 20.57 0.890 4.537	4.50 3.268 20.31 0.928 4.735	4.75 3.175 20.14 0.956 4.958	4.75 3.159 23.36 0.959 4.996	5.00 3.105 23.27 0.975 5.226	5.25 3.071 23.21 0.986 5.467	5.50 3.075 20.27 0.992 5.697	5.75 3.062 20.25 0.995 5.938
	6.00 3.054 20.24 0.997 6.185	6.25 3.047 20.23 0.998 6.433	6.50 3.029 28.84 0.999 6.750	6.75 3.026 28.84 1.000 6.999	7.00 3.023 28.83 1.000 7.249	7.25 3.020 28.82 1.000 7.498	7.50 3.051 20.20 1.000 7.683	7.75 3.049 20.20 1.000 7.933	8.00 3.047 20.21 1.000 8.183	8.25 3.043 20.22 1.000 8.433	8.50 3.048 20.25 1.000 8.686
	8.75 3.045 20.31 1.000 8.936	9.00 3.042 20.40 1.000 9.188	9.25 3.037 20.57 1.000 9.440	9.50 3.024 26.83 1.000 9.756	9.75 3.018 27.63 1.000 10.014	10.00 3.010 29.28 1.000 10.279	(Ref.) : 3				
125	GLUCURONIC ACID -1	26.7	3.677	C6H10O7 194.14	pHL RE t Z pHS	3.00 5.527 30.31 0.546 3.731	3.25 4.890 27.98 0.619 3.860	3.50 4.412 26.40 0.689 3.992			
	3.75 4.017 25.24 0.759 4.144	4.00 3.700 24.43 0.827 4.323	4.00 3.650 21.15 0.845 4.378	4.25 3.477 20.79 0.888 4.543	4.50 3.338 20.53 0.926 4.741	4.75 3.241 20.36 0.955 4.963	4.75 3.224 23.64 0.958 5.001	5.00 3.168 23.55 0.975 5.232	5.25 3.132 23.49 0.985 5.472	5.50 3.137 20.49 0.991 5.702	5.75 3.124 20.47 0.995 5.943
	6.00 3.115 20.46 0.997 6.189	6.25 3.108 20.45 0.998 6.438	6.50 3.089 29.23 0.999 6.756	6.75 3.086 29.22 1.000 7.005	7.00 3.083 29.21 1.000 7.254	7.25 3.079 29.20 1.000 7.504	7.50 3.112 20.41 1.000 7.688	7.75 3.110 20.42 1.000 7.938	8.00 3.107 20.42 1.000 8.187	8.25 3.104 20.44 1.000 8.438	8.50 3.109 20.47 1.000 8.690
	8.75 3.106 20.53 1.000 8.941	9.00 3.102 20.62 1.000 9.192	9.25 3.098 20.80 1.000 9.444	9.50 3.084 27.20 1.000 9.762	9.75 3.078 28.05 1.000 10.020	10.00 3.069 29.79 1.000 10.287	(Ref.) : 10				
126	GLUTACONIC ACID -1 -2	28.0 56.0	3.767 5.077	C5H6O4 130.10	pHL RE t Z pHS	3.00 5.272 29.98 0.546 3.747	3.25 4.542 28.17 0.637 3.872	3.50 3.978 27.13 0.731 3.998			
	3.75 3.486 26.62 0.840 4.140	4.00 3.048 26.65 0.967 4.307	4.00 2.879 23.88 1.036 4.394	4.25 2.610 24.42 1.150 4.542	4.50 2.352 25.23 1.286 4.718	4.75 2.125 26.21 1.436 4.917	4.75 2.081 29.64 1.466 4.959	5.00 1.920 30.52 1.600 5.157	5.25 1.793 31.27 1.722 5.374	5.50 1.709 28.97 1.833 5.641	5.75 1.661 29.28 1.891 5.850
	6.00 1.627 29.50 1.934 6.080	6.25 1.605 29.64 1.961 6.322	6.50 1.581 38.57 1.979 6.602	6.75 1.573 38.60 1.988 6.845	7.00 1.567 38.61 1.993 7.092	7.25 1.563 38.61 1.996 7.340	7.50 1.583 29.80 1.998 7.565	7.75 1.581 29.80 1.999 7.815	8.00 1.579 29.81 1.999 8.064	8.25 1.577 29.82 2.000 8.314	8.50 1.580 29.84 2.000 8.565
	8.75 1.578 29.87 2.000 8.815	9.00 1.577 29.92 2.000 9.065	9.25 1.575 30.01 2.000 9.315	9.50 1.565 36.07 2.000 9.587	9.75 1.563 36.40 2.000 9.838	10.00 1.560 37.03 2.000 10.091	(Ref.) : 12 , 1				

127	GLUTAMIC ACID (S)				C5H9NO4		pHL	3.00	3.25	3.50
	1	28.9	2.155		147.13		RE	8.843	7.502	6.489
	-1	-28.9	4.376				t	27.92	26.10	24.85
	-2	-49.6	9.960				Z	0.309	0.366	0.424
							pHS	4.030	4.132	4.232
	3.75	4.00	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75
	5.614	4.846	4.447	4.072	3.717	3.420	3.353	3.169	3.038	2.926
	23.90	23.20	20.05	19.81	19.62	19.47	22.47	22.40	22.35	19.59
	0.492	0.573	0.630	0.690	0.758	0.827	0.843	0.893	0.932	0.976
	4.345	4.481	4.581	4.695	4.842	5.021	5.072	5.264	5.481	5.944
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.895	2.875	2.850	2.842	2.836	2.828	2.850	2.839	2.821	2.792
	19.57	19.57	27.65	27.66	27.68	27.71	19.65	19.75	19.93	20.24
	0.986	0.992	0.997	0.999	1.001	1.004	1.006	1.012	1.021	1.036
	6.180	6.423	6.738	6.984	7.232	7.481	7.675	7.924	8.174	8.424
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 11 , 5			
	2.675	2.571	2.438	2.249	2.116	2.001				
	21.63	22.84	24.43	32.87	34.99	37.27				
	1.111	1.180	1.278	1.432	1.562	1.688				
	8.938	9.182	9.421	9.715	9.938	10.169				
128	GLUTARIC ACID				C5H8O4		pHL	3.00	3.25	3.50
	-1	26.6	4.343		132.12		RF	8.432	7.032	5.967
	-2	55.6	5.272				t	30.12	28.53	27.59
							Z	0.353	0.425	0.503
							pHS	3.994	4.102	4.205
	3.75	4.00	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75
	5.037	4.205	3.699	3.275	2.858	2.486	2.392	2.144	1.946	1.793
	27.07	26.96	24.09	24.45	25.04	25.85	29.39	30.20	30.99	28.81
	0.598	0.720	0.828	0.939	1.081	1.248	1.297	1.452	1.605	1.764
	4.319	4.453	4.563	4.673	4.813	4.981	5.033	5.205	5.404	5.679
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.670	1.635	1.602	1.591	1.583	1.577	1.596	1.594	1.592	1.590
	29.46	29.65	38.68	38.73	38.75	38.75	29.88	29.89	29.89	29.90
	1.900	1.940	1.968	1.981	1.989	1.994	1.996	1.998	1.999	2.000
	6.091	6.327	6.611	6.849	7.095	7.342	7.567	7.816	8.066	8.315
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 10 , 1			
	1.591	1.589	1.587	1.578	1.575	1.572				
	29.95	30.01	30.10	36.20	36.55	37.18				
	2.000	2.000	2.000	2.000	2.000	2.000				
	8.816	9.066	9.317	9.589	9.840	10.092				
129	GLYCERIC ACID				C3H6O4		pHL	3.00	3.25	3.50
	-1	36.4	3.737		106.08		RE	4.395	3.843	3.430
							t	24.23	22.68	21.62
							Z	0.497	0.570	0.640
							pHS	3.703	3.830	3.956
	3.75	4.00	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75
	3.087	2.806	2.727	2.580	2.458	2.370	2.359	2.307	2.274	2.266
	20.83	20.26	17.85	17.62	17.43	17.31	19.68	19.62	19.58	17.40
	0.714	0.787	0.815	0.863	0.907	0.941	0.945	0.967	0.980	0.989
	4.100	4.271	4.345	4.499	4.687	4.903	4.937	5.161	5.399	5.639
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.247	2.242	2.233	2.231	2.229	2.227	2.242	2.241	2.239	2.238
	17.38	17.37	23.72	23.71	23.71	23.71	17.34	17.34	17.35	17.36
	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.122	6.370	6.669	6.918	7.167	7.417	7.619	7.869	8.119	8.369
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10			
	2.239	2.237	2.235	2.230	2.227	2.224				
	17.40	17.46	17.55	22.00	22.38	23.10				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.871	9.122	9.373	9.666	9.920	10.177				

130	GLYCOLIC ACID			3.886	C2H4O3			pHL RE t Z pHS	3.00 4.264 21.78 0.437 3.747	3.25 3.687 20.58 0.506 3.867	3.50 3.256 19.76 0.574 3.985					
	-1	42.4			76.05											
	3.75	4.00	4.00		4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	2.892	2.585	2.463		2.309	2.175	2.072					2.059	1.998	1.958	1.940	1.927
	19.13	18.67	16.59		16.41	16.26	16.16					18.18	18.12	18.09	16.23	16.22
	0.649	0.728	0.768		0.821	0.873	0.917					0.923	0.951	0.971	0.983	0.990
	4.119	4.278	4.370		4.509	4.684	4.890					4.924	5.139	5.372	5.620	5.852
	6.00	6.25	6.50		6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	1.918	1.913	1.906		1.904	1.903	1.901					1.910	1.909	1.908	1.907	1.909
	16.21	16.21	21.62		21.61	21.61	21.61					16.18	16.18	16.19	16.20	16.20
	0.994	0.997	0.998		0.999	0.999	1.000					1.000	1.000	1.000	1.000	1.000
6.095	6.342	6.632	6.879	7.129	7.378	7.591	7.840	8.090	8.340	8.591						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 10, 1										
1.908	1.907	1.905	1.902	1.901	1.899											
16.23	16.27	16.34	20.09	20.36	20.85											
1.000	1.000	1.000	1.000	1.000	1.000											
8.841	9.092	9.343	9.626	9.878	10.133											
131	GLYOXYLIC ACID			3.337	C2H4O4			pHL RE t Z pHS	3.00 3.196 23.57 0.631 3.538	3.25 2.867 21.89 0.705 3.681	3.50 2.628 20.75 0.771 3.829					
	-1	39.6			92.05											
	3.75	4.00	4.00		4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	2.438	2.293	2.275		2.197	2.139	2.100					2.096	2.074	2.060	2.061	2.056
	19.93	19.37	17.21		16.95	16.77	15.65					18.82	18.76	18.72	16.73	16.72
	0.832	0.886	0.898		0.930	0.956	0.974					0.975	0.986	0.992	0.995	0.997
	3.997	4.192	4.242		4.424	4.637	4.868					4.894	5.130	5.375	5.613	5.856
	6.00	6.25	6.50		6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	2.053	2.050	2.044		2.043	2.042	2.040					2.052	2.051	2.050	2.049	2.051
	16.71	16.71	22.51		22.51	22.51	22.51					16.67	16.68	16.68	16.69	16.70
	0.998	0.999	1.000		1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
6.104	6.353	6.646	6.896	7.145	7.395	7.603	7.853	8.103	8.353	8.604						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 3										
2.050	2.048	2.046	2.042	2.040	2.038											
16.73	16.77	16.85	20.90	21.21	21.80											
1.000	1.000	1.000	1.000	1.000	1.000											
8.854	9.105	9.356	9.643	9.896	10.152											
132	HIPPURIC ACID			2.700	C9H9NO3			pHL RE t Z pHS	3.00 3.744 33.47 0.868 3.484	3.25 3.586 30.10 0.907 3.656	3.50 3.477 27.88 0.937 3.835					
	-1	25.3			179.18											
	-2	55.1			7.271											
	3.75	4.00	4.00		4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	3.397	3.341	3.362		3.329	3.302	3.278					3.268	3.241	3.203	3.170	3.084
	26.37	25.41	22.05		21.56	21.27	21.13					24.62	24.60	24.69	21.81	22.23
	0.960	0.976	0.977		0.987	0.995	1.001					1.002	1.009	1.019	1.036	1.062
	4.035	4.257	4.271		4.482	4.713	4.954					4.990	5.234	5.481	5.739	5.982
	6.00	6.25	6.50		6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	2.954	2.778	2.390		2.224	2.060	1.913					1.806	1.739	1.687	1.653	1.635
	22.89	23.79	34.85		35.69	36.52	37.25					28.95	29.31	29.58	29.76	29.89
1.104	1.168	1.340	1.435	1.545	1.659	1.780	1.848	1.903	1.942	1.966						
6.222	6.459	6.863	7.033	7.220	7.424	7.677	7.872	8.093	8.329	8.579						
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 10										
1.622	1.614	1.608	1.596	1.592	1.588											
29.98	30.07	30.19	36.36	36.72	37.37											
1.981	1.989	1.994	1.997	1.998	1.999											
8.823	9.070	9.319	9.592	9.843	10.095											

133	HYDROBROMIC ACID -1	81.0	-2.000	HBr 80.91		pHL RE	3.00 0.976	3.25 0.976	3.50 0.976		
						t	17.88	16.11	15.11		
						Z	1.000	1.000	1.000		
						pHS	2.993	3.244	3.495		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976
	14.56	14.25	13.27	13.09	12.99	12.94	13.97	13.94	13.93	12.97	12.96
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.746	3.996	3.996	4.247	4.497	4.747	4.747	4.997	5.247	5.497	5.747
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976
	12.96	12.97	15.72	15.72	15.72	15.73	12.94	12.95	12.95	12.95	12.95
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	5.997	6.247	6.496	6.746	6.996	7.246	7.497	7.747	7.997	8.247	8.497
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 2 , 12				
	0.976	0.976	0.976	0.976	0.976	0.976					
	12.96	12.98	13.00	14.87	14.94	15.08					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.747	8.997	9.247	9.496	9.746	9.996					
134	HYDROCHLORIC ACID -1	79.1	-2.000	HCl 36.46		pHL RE	3.00 1.000	3.25 1.000	3.50 1.000		
						t	18.06	16.26	15.25		
						Z	1.000	1.000	1.000		
						pHS	3.000	3.250	3.500		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	14.68	14.36	13.36	13.18	13.08	13.02	14.08	14.05	14.03	13.05	13.05
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.750	4.000	4.000	4.250	4.500	4.750	4.750	5.000	5.250	5.500	5.750
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	13.05	13.05	15.87	15.87	15.87	15.88	13.03	13.03	13.03	13.04	13.04
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.000	6.250	6.500	6.750	7.000	7.250	7.500	7.750	8.000	8.250	8.500
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 1 , 12				
	1.000	1.000	1.000	1.000	1.000	1.000					
	13.05	13.06	13.09	15.00	15.08	15.22					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.750	9.000	9.250	9.500	9.750	10.000					
135	HYDROCYANIC ACID -1	80.9	9.400	HCN 27.03		pHL RE	3.00 □□□□□	3.25 □□□□□	3.50 □□□□□		
						t	15.14	14.91	14.72		
						Z	0.001	0.001	0.002		
						pHS	6.443	6.519	6.588		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□
	14.55	14.40	13.27	13.24	13.22	13.19	14.18	14.17	14.16	13.23	13.23
	0.002	0.002	0.004	0.004	0.005	0.005	0.007	0.008	0.010	0.023	0.025
	6.663	6.749	6.950	6.997	7.059	7.138	7.237	7.300	7.381	7.772	7.805
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	33.026	28.390	11.914	11.207	10.217	8.972	4.575	4.271	3.864	3.380	2.314
	13.22	13.22	15.91	15.91	15.91	15.90	13.17	13.16	13.16	13.16	13.15
	0.028	0.033	0.079	0.084	0.092	0.105	0.208	0.223	0.246	0.282	0.415
	7.855	7.922	8.319	8.347	8.391	8.453	8.797	8.834	8.890	8.969	9.220
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 2 , 4				
	2.099	1.859	1.624	1.356	1.245	1.152					
	13.15	13.16	13.18	15.05	15.12	15.24					
	0.458	0.518	0.594	0.715	0.780	0.845					
	9.295	9.398	9.530	9.761	9.910	10.093					

136	HYDROFLUORIC ACID (S)				HF		pHL	3.00	3.25	3.50	
	-1	57.4	3.173		20.01	RE	2.095	1.885	1.734		
						t	19.19	17.99	17.19		
						Z	0.657	0.732	0.797		
						pHS	3.420	3.572	3.729		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.618	1.532	1.519	1.474	1.441	1.420	1.419	1.407	1.399	1.398	1.395
	16.61	16.23	14.76	14.57	14.45	14.37	15.84	15.80	15.78	14.42	14.41
	0.855	0.904	0.914	0.943	0.965	0.979	0.980	0.988	0.993	0.996	0.998
	3.905	4.108	4.159	4.350	4.569	4.804	4.818	5.057	5.303	5.549	5.794
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.394	1.393	1.391	1.391	1.390	1.390	1.393	1.392	1.392	1.392	1.392
	14.41	14.41	18.35	18.35	18.35	18.35	14.38	14.38	14.39	14.39	14.40
	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.042	6.292	6.561	6.810	7.060	7.310	7.541	7.791	8.041	8.291	8.541
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1 , 7				
	1.392	1.392	1.391	1.390	1.390	1.389					
	14.41	14.44	14.48	17.17	17.31	17.57					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.792	9.042	9.292	9.558	9.809	10.060					
137	HYDROGEN AZIDE				HN3		pHL	3.00	3.25	3.50	
	-1	72.0	4.720		43.00	RE	5.240	4.433	3.818		
						t	16.00	15.60	15.30		
						Z	0.204	0.242	0.281		
						pHS	4.107	4.200	4.287		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.269	2.763	2.239	2.041	1.831	1.629	1.558	1.430	1.319	1.209	1.175
	15.05	14.84	13.57	13.51	13.46	13.41	14.55	14.52	14.50	13.41	13.41
	0.329	0.390	0.484	0.532	0.594	0.669	0.701	0.765	0.831	0.909	0.936
	4.383	4.497	4.660	4.742	4.850	4.989	5.052	5.193	5.370	5.677	5.843
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.147	1.128	1.115	1.110	1.106	1.104	1.103	1.102	1.102	1.102	1.102
	13.40	13.40	16.51	16.51	16.51	16.52	13.38	13.38	13.38	13.39	13.39
	0.959	0.976	0.987	0.992	0.996	0.997	0.999	0.999	1.000	1.000	1.000
	6.049	6.278	6.548	6.779	7.021	7.268	7.514	7.762	8.011	8.261	8.511
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2				
	1.101	1.101	1.101	1.101	1.101	1.101					
	13.40	13.42	13.45	15.56	15.65	15.82					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.761	9.011	9.261	9.516	9.766	10.016					
138	HYDROGEN HEXAFLUOROPHOSPHIDE				HPF6		pHL	3.00	3.25	3.50	
	-1	59.0	0.000		146.00	RE	1.353	1.352	1.352		
						t	20.61	18.47	17.21		
						Z	0.999	1.000	1.000		
						pHS	3.094	3.328	3.562		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.352	1.351	1.353	1.353	1.353	1.352	1.352	1.352	1.351	1.353	1.353
	16.47	16.05	14.69	14.45	14.31	14.24	15.67	15.63	15.60	14.28	14.27
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.802	4.048	4.049	4.292	4.539	4.787	4.795	5.044	5.294	5.538	5.787
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.353	1.353	1.352	1.352	1.351	1.351	1.353	1.353	1.353	1.353	1.353
	14.27	14.27	18.10	18.10	18.10	18.10	14.24	14.25	14.25	14.26	14.26
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.037	6.287	6.555	6.804	7.054	7.304	7.537	7.787	8.037	8.287	8.538
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12				
	1.353	1.353	1.352	1.352	1.351	1.350					
	14.27	14.30	14.34	16.95	17.09	17.33					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.788	9.038	9.288	9.552	9.803	10.055					



139	HYDROGEN SULFIDE -1	67.4	6.960	H <sub>2</sub> S 34.08	pHL RE t Z pHS	3.00 60.809 16.25 0.018 5.226	3.25 50.836 15.92 0.022 5.305	3.50 43.172 15.66 0.026 5.377			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	36.218	29.649	19.491	17.435	15.090	12.608	10.373	8.960	7.477	3.801	3.530
	15.44	15.25	13.88	13.85	13.81	13.78	14.97	14.95	14.94	13.78	13.77
	0.031	0.038	0.058	0.065	0.075	0.089	0.109	0.126	0.152	0.302	0.326
	5.455	5.545	5.736	5.787	5.854	5.938	6.033	6.104	6.194	6.572	6.618
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.182	2.787	1.850	1.754	1.635	1.510	1.347	1.300	1.258	1.226	1.206
	13.77	13.76	17.03	17.02	17.02	17.02	13.66	13.66	13.66	13.66	13.66
	0.362	0.414	0.630	0.665	0.714	0.775	0.873	0.905	0.936	0.960	0.977
	6.686	6.780	7.155	7.221	7.320	7.458	7.754	7.895	8.081	8.298	8.549
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 4				
	1.195	1.188	1.184	1.181	1.180	1.179					
	13.67	13.69	13.72	15.99	16.09	16.28					
	0.987	0.992	0.996	0.998	0.999	0.999					
	8.782	9.025	9.272	9.529	9.778	10.029					
140	HYDRIODIC ACID -1	79.6	-2.000	HI 127.91	pHL RE t Z pHS	3.00 0.993 18.01 1.000 2.998	3.25 0.993 16.22 1.000 3.248	3.50 0.993 15.21 1.000 3.499			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993
	14.65	14.33	13.34	13.15	13.05	13.00	14.05	14.02	14.00	13.03	13.03
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.749	3.999	3.999	4.249	4.499	4.749	4.749	4.999	5.249	5.499	5.749
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993
	13.02	13.03	15.83	15.83	15.83	15.84	13.00	13.01	13.01	13.02	13.01
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	5.999	6.249	6.499	6.749	6.999	7.249	7.499	7.749	7.999	8.249	8.499
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1 , 12				
	0.993	0.993	0.993	0.993	0.993	0.993					
	13.02	13.04	13.07	14.96	15.04	15.18					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.749	8.999	9.249	9.499	9.749	9.999					
141	2-HYDROXY-3-CHLOROBUTYRIC -1	34.4	3.092	A. C <sub>4</sub> H <sub>7</sub> ClO <sub>3</sub> 138.55	pHL RE t Z pHS	3.00 3.217 26.31 0.728 3.487	3.25 2.958 24.12 0.794 3.643	3.50 2.772 22.66 0.848 3.805			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.631	2.528	2.529	2.472	2.432	2.406	2.402	2.387	2.377	2.385	2.381
	21.63	20.96	18.49	18.15	17.93	17.79	20.31	20.24	20.19	17.88	17.87
	0.896	0.933	0.937	0.959	0.975	0.986	0.986	0.992	0.996	0.997	0.999
	3.989	4.198	4.230	4.428	4.651	4.889	4.916	5.158	5.404	5.637	5.883
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.378	2.375	2.367	2.366	2.364	2.362	2.379	2.378	2.376	2.375	2.378
	17.86	17.86	24.59	24.58	24.58	24.57	17.82	17.83	17.83	17.84	17.86
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.131	6.381	6.683	6.932	7.182	7.432	7.631	7.881	8.131	8.381	8.632
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.376	2.374	2.372	2.365	2.362	2.358					
	17.89	17.95	18.06	22.80	23.24	24.08					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.883	9.133	9.385	9.682	9.936	10.195					

142	2-HYDROXY-3-C1-ISOBUTYRIC -1	34.4	3.208	A.	C4H7C1O3 138.55	pHL RE t Z pHS	3.00 3.394 26.11 0.689 3.522	3.25 3.090 24.02 0.759 3.672	3.50 2.870 22.61 0.818 3.827		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.700	2.574	2.569	2.499	2.449	2.416	2.411	2.392	2.380	2.387	2.382
	21.62	20.95	18.47	18.15	17.93	17.79	20.31	20.24	20.19	17.88	17.87
	0.872	0.916	0.922	0.949	0.968	0.981	0.983	0.990	0.994	0.997	0.998
	4.004	4.208	4.245	4.437	4.656	4.891	4.919	5.159	5.405	5.638	5.883
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.379	2.376	2.367	2.366	2.364	2.362	2.379	2.378	2.377	2.375	2.378
	17.86	17.86	24.59	24.58	24.58	24.57	17.82	17.83	17.83	17.84	17.86
	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.132	6.381	6.683	6.932	7.182	7.432	7.631	7.881	8.131	8.381	8.632
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.376	2.374	2.372	2.365	2.362	2.358					
	17.89	17.95	18.06	22.80	23.24	24.08					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.883	9.133	9.385	9.682	9.936	10.195					
143	2-HYDROXY-3-C1-PROPIONIC -1	36.5	3.124	A.	C3H5C1O3 124.52	pHL RE t Z pHS	3.00 3.093 25.24 0.712 3.484	3.25 2.830 23.21 0.780 3.638	3.50 2.642 21.85 0.837 3.798		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.497	2.392	2.390	2.332	2.291	2.264	2.261	2.245	2.235	2.241	2.237
	20.90	20.26	17.94	17.63	17.42	17.29	19.66	19.59	19.55	17.37	17.36
	0.887	0.927	0.932	0.956	0.973	0.984	0.985	0.991	0.995	0.997	0.998
	3.980	4.188	4.222	4.419	4.641	4.878	4.904	5.145	5.391	5.625	5.871
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.235	2.232	2.225	2.224	2.222	2.221	2.235	2.234	2.233	2.231	2.234
	17.35	17.35	23.68	23.67	23.67	23.66	17.32	17.32	17.33	17.34	17.35
	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.119	6.369	6.667	6.916	7.166	7.416	7.619	7.869	8.119	8.369	8.620
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.233	2.231	2.229	2.223	2.221	2.218					
	17.38	17.43	17.52	21.96	22.34	23.06					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.870	9.121	9.372	9.665	9.919	10.176					
144	2-HYDROXY-m-TOLUIC -1	31.3	3.000	ACID	C8H8O3 152.15	pHL RE t Z pHS	3.00 3.376 28.25 0.767 3.485	3.25 3.138 25.74 0.827 3.645	3.50 2.969 24.08 0.875 3.812		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.842	2.751	2.758	2.708	2.673	2.650	2.645	2.631	2.622	2.633	2.630
	22.92	22.16	19.45	19.07	18.82	18.67	21.45	21.36	21.32	18.77	18.75
	0.916	0.947	0.950	0.968	0.981	0.989	0.989	0.994	0.997	0.998	0.999
	4.001	4.214	4.239	4.442	4.668	4.907	4.937	5.179	5.426	5.656	5.903
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.627	2.624	2.613	2.611	2.609	2.607	2.629	2.627	2.626	2.623	2.627
	18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.151	6.401	6.709	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.625	2.622	2.619	2.610	2.607	2.601					
	18.79	18.86	18.98	24.28	24.83	25.91					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.903	9.154	9.406	9.710	9.966	10.226					

145	3-HYDROXY-o-TOLUIC		ACID	C8H8O3			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	31.3	2.983	152.15				3.354	3.121	2.957	
								28.28	25.76	24.08	
								0.772	0.831	0.879	
								3.480	3.642	3.809	
	3.75	4.00	4.00	4.25	4.50	4.75		5.00	5.25	5.50	5.75
	2.834	2.746	2.754	2.705	2.671	2.648		2.643	2.630	2.633	2.630
	22.92	22.16	19.45	19.07	18.82	18.67		21.45	21.36	21.32	18.77
	0.918	0.949	0.951	0.969	0.981	0.989		0.990	0.994	0.997	0.998
	3.999	4.213	4.238	4.441	4.668	4.907		4.936	5.179	5.426	5.656
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25
2.627	2.623	2.613	2.611	2.609	2.607	2.629	2.627	2.626	2.623	2.627	
18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75	
0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
6.151	6.401	6.709	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 3					
2.625	2.622	2.619	2.610	2.607	2.601						
18.79	18.86	18.98	24.28	24.83	25.91						
1.000	1.000	1.000	1.000	1.000	1.000						
8.903	9.154	9.406	9.710	9.966	10.226						
146	3-HYDROXY-p-TOLUIC		ACID	C8H8O3			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	31.3	3.143	152.15				3.585	3.293	3.082	
								27.99	25.61	24.02	
								0.721	0.786	0.842	
								3.523	3.676	3.835	
	3.75	4.00	4.00	4.25	4.50	4.75		5.00	5.25	5.50	5.75
	2.920	2.802	2.804	2.738	2.691	2.660		2.655	2.637	2.625	2.635
	22.90	22.15	19.43	19.06	18.82	18.67		21.45	21.36	21.31	18.77
	0.890	0.929	0.934	0.957	0.974	0.985		0.986	0.992	0.995	0.997
	4.017	4.224	4.255	4.451	4.673	4.910		4.940	5.181	5.427	5.657
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25
2.627	2.624	2.613	2.611	2.609	2.607	2.629	2.627	2.626	2.623	2.627	
18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75	
0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
6.151	6.401	6.709	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 3					
2.625	2.622	2.619	2.610	2.607	2.601						
18.79	18.86	18.98	24.28	24.83	25.91						
1.000	1.000	1.000	1.000	1.000	1.000						
8.903	9.154	9.406	9.710	9.966	10.226						
147	4-HYDROXY-m-TOLUIC		ACID	C8H8O3			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	31.3	3.066	152.15				3.467	3.205	3.018	
								28.13	25.68	24.05	
								0.746	0.809	0.861	
								3.502	3.659	3.822	
	3.75	4.00	4.00	4.25	4.50	4.75		5.00	5.25	5.50	5.75
	2.875	2.773	2.778	2.721	2.681	2.654		2.649	2.633	2.623	2.634
	22.91	22.16	19.44	19.06	18.82	18.67		21.45	21.36	21.32	18.77
	0.905	0.939	0.943	0.963	0.978	0.987		0.988	0.993	0.996	0.998
	4.008	4.218	4.246	4.446	4.670	4.908		4.938	5.180	5.426	5.656
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25
2.627	2.624	2.613	2.611	2.609	2.607	2.629	2.627	2.626	2.623	2.627	
18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75	
0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
6.151	6.401	6.709	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653	
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 3					
2.625	2.622	2.619	2.610	2.607	2.601						
18.79	18.86	18.98	24.28	24.83	25.91						
1.000	1.000	1.000	1.000	1.000	1.000						
8.903	9.154	9.406	9.710	9.966	10.226						

148	6-HYDROXY-O-TOLUIC ACID			C8H8O3			pHL			3.00	3.25	3.50
	-1	31.3	3.321	152.15			RE	3.908	3.537	3.265		
							t	27.65	25.43	23.94		
							Z	0.659	0.730	0.793		
							pHS	3.577	3.721	3.871		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	3.051	2.888	2.879	2.790	2.724	2.680	2.672	2.647	2.631	2.639	2.633	
	22.87	22.14	19.40	19.05	18.81	18.67	21.45	21.36	21.31	18.77	18.75	
	0.851	0.900	0.908	0.938	0.962	0.977	0.979	0.988	0.993	0.996	0.998	
	4.042	4.240	4.280	4.466	4.681	4.914	4.945	5.183	5.428	5.659	5.904	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
2.628	2.625	2.613	2.611	2.609	2.607	2.629	2.627	2.626	2.623	2.627		
18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75		
0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
6.152	6.401	6.709	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 3						
2.625	2.622	2.619	2.610	2.607	2.601							
18.79	18.86	18.98	24.28	24.83	25.91							
1.000	1.000	1.000	1.000	1.000	1.000							
8.903	9.154	9.406	9.710	9.966	10.226							
149	m-HYDROXYBENZOIC ACID			C7H6O3			pHL			3.00	3.25	3.50
	-1	34.0	4.082	138.12			RE	6.004	5.154	4.516		
	-2	62.0	9.609				t	24.86	23.38	22.36		
							Z	0.388	0.453	0.518		
							pHS	3.858	3.973	4.086		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	3.971	3.503	3.303	3.068	2.856	2.689	2.661	2.559	2.491	2.462	2.439	
	21.59	21.03	18.40	18.19	18.02	17.90	20.43	20.37	20.33	17.99	17.98	
	0.592	0.673	0.719	0.776	0.835	0.889	0.898	0.934	0.960	0.977	0.986	
	4.213	4.364	4.457	4.587	4.752	4.948	4.991	5.198	5.426	5.671	5.899	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
2.423	2.413	2.398	2.393	2.386	2.377	2.385	2.365	2.332	2.280	2.191		
17.97	17.98	24.81	24.83	24.87	24.94	18.19	18.39	18.73	19.29	20.29		
0.992	0.996	0.999	1.001	1.004	1.008	1.014	1.025	1.043	1.075	1.135		
6.140	6.386	6.691	6.938	7.187	7.436	7.648	7.897	8.146	8.395	8.680		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 3, 2						
2.084	1.955	1.821	1.674	1.583	1.513							
21.47	22.89	24.42	31.18	32.51	33.81							
1.213	1.317	1.443	1.600	1.715	1.812							
8.914	9.145	9.374	9.646	9.866	10.098							
150	p-HYDROXYBENZOIC ACID			C7H6O3			pHL			3.00	3.25	3.50
	-1	34.0	4.530	138.12			RE	8.759	7.385	6.353		
	-2	62.0	9.310				t	24.36	23.07	22.19		
							Z	0.263	0.313	0.365		
							pHS	4.062	4.166	4.265		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	5.455	4.658	4.135	3.765	3.401	3.081	2.999	2.797	2.644	2.544	2.492	
	21.50	20.99	18.32	18.15	18.01	17.90	20.41	20.36	20.32	17.99	17.98	
	0.426	0.501	0.570	0.628	0.697	0.772	0.793	0.852	0.903	0.945	0.965	
	4.375	4.505	4.622	4.725	4.858	5.024	5.078	5.254	5.459	5.721	5.923	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
2.455	2.430	2.404	2.393	2.381	2.364	2.361	2.324	2.266	2.181	2.046		
17.98	17.99	24.84	24.88	24.96	25.11	18.46	18.84	19.44	20.35	21.85		
0.979	0.989	0.997	1.002	1.008	1.016	1.028	1.049	1.085	1.140	1.243		
6.151	6.391	6.700	6.942	7.189	7.438	7.661	7.909	8.155	8.400	8.689		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 3, 2						
1.921	1.793	1.677	1.567	1.505	1.462							
23.22	24.65	25.98	32.39	33.38	34.37							
1.350	1.475	1.606	1.740	1.828	1.893							
8.908	9.129	9.355	9.620	9.847	10.085							

151	2-HYDROXYBUTYRIC ACID				C4H8O3		pHL RE t Z pHS	3.00	3.25	3.50		
	-1	34.3	3.979	104.11		5.505		4.751	4.185			
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	3.704	3.296	3.142	2.934	2.752	2.611		2.589	2.505	2.450	2.429	2.410
	21.50	20.93	18.34	18.12	17.94	17.82		20.33	20.27	20.22	17.91	17.90
	0.630	0.710	0.750	0.805	0.860	0.908		0.915	0.946	0.968	0.981	0.989
	4.179	4.336	4.423	4.560	4.732	4.935		4.975	5.188	5.420	5.663	5.894
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
	2.398	2.390	2.378	2.375	2.372	2.370		2.387	2.385	2.384	2.382	2.385
	17.89	17.88	24.63	24.63	24.63	24.62		17.85	17.85	17.86	17.87	17.89
	0.994	0.996	0.998	0.999	0.999	1.000		1.000	1.000	1.000	1.000	1.000
6.136	6.383	6.686	6.934	7.183	7.433	7.632	7.881	8.131	8.381	8.633		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 3						
2.383	2.381	2.379	2.372	2.369	2.366							
17.92	17.98	18.08	22.85	23.29	24.13							
1.000	1.000	1.000	1.000	1.000	1.000							
8.883	9.134	9.385	9.683	9.937	10.196							
152	3-HYDROXYBUTYRIC ACID				C4H8O3		pHL RE t Z pHS	3.00	3.25	3.50		
	-1	34.3	4.519	104.11		8.608		7.260	6.247			
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	5.367	4.585	4.074	3.711	3.354	3.041		2.962	2.765	2.615	2.518	2.468
	21.39	20.88	18.24	18.07	17.93	17.82		20.31	20.26	20.22	17.91	17.90
	0.430	0.505	0.573	0.631	0.700	0.775		0.795	0.854	0.904	0.945	0.965
	4.370	4.500	4.617	4.720	4.854	5.020		5.074	5.250	5.456	5.718	5.920
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
	2.433	2.410	2.388	2.381	2.376	2.372		2.388	2.386	2.384	2.382	2.385
	17.89	17.88	24.63	24.63	24.62	24.62		17.85	17.85	17.86	17.87	17.89
	0.979	0.988	0.994	0.997	0.998	0.999		0.999	1.000	1.000	1.000	1.000
6.148	6.389	6.694	6.937	7.184	7.433	7.632	7.882	8.131	8.381	8.633		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 3						
2.383	2.381	2.379	2.372	2.369	2.366							
17.92	17.98	18.08	22.85	23.29	24.13							
1.000	1.000	1.000	1.000	1.000	1.000							
8.883	9.134	9.385	9.683	9.937	10.196							
153	4-HYDROXYBUTYRIC ACID				C4H8O3		pHL RE t Z pHS	3.00	3.25	3.50		
	-1	34.3	4.721	104.11		10.360		8.687	7.430			
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	6.334	5.350	4.614	4.173	3.729	3.325		3.202	2.943	2.737	2.581	2.512
	21.36	20.87	18.21	18.06	17.93	17.82		20.30	20.25	20.22	17.91	17.90
	0.362	0.431	0.504	0.559	0.627	0.706		0.734	0.800	0.862	0.921	0.947
	4.452	4.574	4.700	4.794	4.916	5.068		5.128	5.289	5.481	5.752	5.939
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
	2.460	2.426	2.396	2.385	2.378	2.373		2.389	2.387	2.385	2.382	2.385
	17.89	17.89	24.63	24.63	24.62	24.62		17.85	17.85	17.86	17.87	17.89
	0.968	0.981	0.990	0.994	0.997	0.998		0.999	0.999	1.000	1.000	1.000
6.157	6.393	6.700	6.939	7.185	7.434	7.633	7.882	8.131	8.381	8.633		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 3						
2.384	2.381	2.379	2.372	2.369	2.366							
17.92	17.98	18.08	22.85	23.29	24.13							
1.000	1.000	1.000	1.000	1.000	1.000							
8.883	9.134	9.385	9.683	9.937	10.196							

154	m-HYDROXYCINNAMIC -1 27.0	ACID 4.397			C9H8O3 164.16			pHL 3.00	3.25	3.50
								RE 9.479	8.045	6.961
								t 28.86	27.02	25.77
								Z 0.309	0.366	0.424
								DHS 4.027	4.135	4.240
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	6.025	5.203	4.795	4.386	4.001	3.680	3.606	3.407	3.265	3.195
	24.83	24.14	20.80	20.56	20.36	20.22	23.43	23.36	23.31	20.35
	0.492	0.572	0.627	0.688	0.757	0.825	0.841	0.892	0.932	0.960
	4.358	4.496	4.593	4.709	4.857	5.037	5.088	5.281	5.498	5.744
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	3.112	3.091	3.062	3.055	3.050	3.045	3.076	3.074	3.071	3.067
	20.32	20.32	28.99	28.99	28.98	28.97	20.28	20.28	20.29	20.31
	0.986	0.992	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000
	6.196	6.439	6.758	7.004	7.252	7.501	7.686	7.935	8.185	8.435
	8.75	9.00	9.25	9.50	9.75	10.00				
	3.069	3.066	3.061	3.048	3.042	3.034				
	20.39	20.49	20.66	26.97	27.80	29.48				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.938	9.189	9.442	9.758	10.016	10.282				
								(Ref.) : 11 , 1		
155	o-HYDROXYCINNAMIC -1 27.0	ACID 4.613			C9H8O3 164.16			pHL 3.00	3.25	3.50
								RE 11.491	9.674	8.302
								t 28.60	26.85	25.66
								Z 0.254	0.302	0.354
								DHS 4.125	4.229	4.329
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	7.110	6.052	5.420	4.911	4.416	3.983	3.867	3.592	3.386	3.261
	24.76	24.10	20.74	20.52	20.34	20.21	23.41	23.35	23.30	20.35
	0.415	0.489	0.552	0.611	0.683	0.759	0.782	0.844	0.897	0.940
	4.440	4.569	4.676	4.780	4.914	5.079	5.136	5.313	5.518	5.772
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	3.139	3.106	3.070	3.060	3.052	3.046	3.077	3.074	3.071	3.067
	20.32	20.32	28.99	28.99	28.98	28.97	20.28	20.28	20.29	20.31
	0.977	0.987	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000
	6.202	6.442	6.762	7.005	7.252	7.501	7.686	7.935	8.185	8.435
	8.75	9.00	9.25	9.50	9.75	10.00				
	3.069	3.066	3.061	3.048	3.042	3.034				
	20.39	20.49	20.66	26.97	27.80	29.48				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.938	9.189	9.442	9.758	10.016	10.282				
								(Ref.) : 11 , 1		
156	p-HYDROXYCINNAMIC -1 27.0	ACID 4.678			C9H8O3 164.16			pHL 3.00	3.25	3.50
								RE 12.202	10.251	8.777
								t 28.53	26.80	25.63
								Z 0.239	0.285	0.334
								DHS 4.156	4.259	4.357
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	7.496	6.356	5.642	5.100	4.567	4.096	3.963	3.663	3.434	3.286
	24.74	24.09	20.72	20.52	20.34	20.21	23.41	23.34	23.30	20.35
	0.393	0.465	0.530	0.588	0.659	0.737	0.762	0.827	0.884	0.932
	4.465	4.592	4.702	4.803	4.934	5.094	5.153	5.324	5.526	5.782
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	3.149	3.112	3.073	3.061	3.053	3.047	3.077	3.074	3.071	3.067
	20.32	20.32	28.99	28.99	28.98	28.97	20.28	20.28	20.29	20.31
	0.973	0.984	0.992	0.996	0.998	0.999	0.999	1.000	1.000	1.000
	6.205	6.444	6.763	7.006	7.253	7.501	7.686	7.935	8.185	8.435
	8.75	9.00	9.25	9.50	9.75	10.00				
	3.069	3.066	3.061	3.048	3.042	3.034				
	20.39	20.49	20.66	26.97	27.80	29.48				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.938	9.189	9.442	9.758	10.016	10.282				
								(Ref.) : 11 , 7		

157	2-HYDROXYISOBUTYRIC ACID (S)				C4H8O3						
	-1	33.5	3.971		104.11		pHL	3.00	3.25	3.50	
							RE	5.585	4.824	4.252	
							t	25.27	23.69	22.62	
							Z	0.424	0.493	0.561	
							pHS	3.812	3.931	4.048	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.767	3.356	3.206	2.996	2.812	2.671	2.648	2.564	2.509	2.489	2.470
	21.81	21.22	18.57	18.34	18.16	18.03	20.61	20.54	20.49	18.12	18.11
	0.635	0.715	0.754	0.809	0.863	0.910	0.917	0.948	0.969	0.982	0.989
	4.180	4.338	4.423	4.561	4.735	4.939	4.978	5.193	5.425	5.666	5.898
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.458	2.450	2.437	2.434	2.432	2.429	2.447	2.446	2.444	2.442	2.445
	18.10	18.10	25.02	25.01	25.01	25.00	18.06	18.06	18.07	18.08	18.10
	0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.141	6.388	6.693	6.940	7.190	7.439	7.637	7.886	8.136	8.386	8.638
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 4				
	2.443	2.441	2.438	2.432	2.428	2.424					
	18.13	18.20	18.30	23.20	23.67	24.56					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.888	9.139	9.390	9.690	9.944	10.203					
158	p-HYDROXYPHENYLACETIC ACID				C8H8O3						
	-1	26.9	3.171		152.15		pHL	3.00	3.25	3.50	
							RE	4.162	3.835	3.597	
							t	31.17	28.40	26.55	
							Z	0.727	0.791	0.845	
							pHS	3.566	3.718	3.876	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.414	3.279	3.287	3.212	3.158	3.122	3.113	3.092	3.078	3.094	3.089
	25.23	24.36	21.17	20.74	20.45	20.27	23.54	23.44	23.38	20.40	20.38
	0.892	0.930	0.935	0.957	0.974	0.985	0.986	0.992	0.995	0.997	0.998
	4.056	4.263	4.292	4.487	4.708	4.944	4.979	5.219	5.465	5.692	5.958
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.084	3.080	3.063	3.061	3.058	3.055	3.087	3.085	3.082	3.079	3.084
	20.37	20.36	29.07	29.06	29.06	29.05	20.32	20.33	20.34	20.35	20.38
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.186	6.435	6.753	7.002	7.252	7.502	7.686	7.936	8.186	8.436	8.688
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 2				
	3.081	3.078	3.073	3.060	3.054	3.045					
	20.44	20.53	20.71	27.05	27.88	29.58					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.939	9.190	9.443	9.759	10.018	10.284					
159	HYDROXYTRIMETHYLACETIC ACID				C5H10O3						
	-1	31.3	4.863		118.13		pHL	3.00	3.25	3.50	
							RE	12.834	10.722	9.134	
							t	25.50	24.16	23.23	
							Z	0.194	0.233	0.274	
							pHS	4.227	4.327	4.420	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	7.749	6.503	5.543	4.986	4.422	3.902	3.727	3.393	3.119	2.898	2.806
	22.52	21.98	19.06	18.91	18.77	18.66	21.38	21.33	21.30	18.76	18.75
	0.324	0.388	0.460	0.513	0.580	0.660	0.692	0.762	0.831	0.903	0.933
	4.522	4.641	4.767	4.857	4.974	5.120	5.183	5.336	5.521	5.794	5.971
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.735	2.687	2.643	2.629	2.619	2.612	2.632	2.630	2.627	2.624	2.627
	18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75
	0.958	0.975	0.988	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000
	6.184	6.416	6.729	6.966	7.211	7.459	7.653	7.902	8.151	8.401	8.653
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.625	2.622	2.619	2.611	2.607	2.601					
	18.79	18.86	18.98	24.28	24.83	25.91					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.903	9.154	9.406	9.710	9.966	10.226					

160	2-HYDROXYVALERIC ACID				C5H10O3		pHL	3.00	3.25	3.50
	-1	32.3	3.886	118.13			RE	5.414	4.702	4.168
							t	26.05	24.34	23.18
							Z	0.455	0.526	0.595
							pHS	3.782	3.903	4.024
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	3.717	3.340	3.222	3.026	2.858	2.733	2.714	2.640	2.592	2.579
	22.31	21.69	18.95	18.69	18.50	18.36	21.04	20.97	20.93	18.46
	0.669	0.748	0.781	0.833	0.883	0.925	0.930	0.957	0.974	0.985
	4.161	4.325	4.403	4.548	4.728	4.937	4.976	5.195	5.430	5.669
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.551	2.544	2.531	2.528	2.526	2.523	2.543	2.542	2.540	2.537
	18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42
	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.148	6.395	6.702	6.950	7.199	7.449	7.644	7.894	8.144	8.394
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3			
	2.539	2.537	2.534	2.526	2.523	2.518				
	18.48	18.54	18.66	23.77	24.28	25.27				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.896	9.147	9.399	9.701	9.956	10.215				
161	4-HYDROXYVALERIC ACID				C5H10O3		pHL	3.00	3.25	3.50
	-1	32.3	4.699	118.13			RE	10.690	8.968	7.674
							t	25.08	23.75	22.83
							Z	0.227	0.271	0.317
							pHS	4.146	4.248	4.344
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	6.547	5.538	4.819	4.359	3.899	3.484	3.362	3.097	2.888	2.737
	22.13	21.60	18.78	18.62	18.47	18.36	21.01	20.95	20.92	18.46
	0.373	0.443	0.514	0.570	0.639	0.718	0.744	0.810	0.870	0.926
	4.450	4.574	4.695	4.791	4.916	5.071	5.130	5.294	5.490	5.757
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.615	2.581	2.549	2.539	2.532	2.526	2.545	2.543	2.540	2.538
	18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42
	0.970	0.982	0.991	0.995	0.997	0.998	0.999	0.999	1.000	1.000
	6.168	6.405	6.715	6.955	7.202	7.450	7.646	7.895	8.144	8.394
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3			
	2.539	2.537	2.534	2.526	2.523	2.518				
	18.48	18.54	18.66	23.77	24.28	25.27				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.896	9.147	9.399	9.701	9.956	10.215				
162	HYPOPHOSPHOROUS ACID (S)				H3PO2		pHL	3.00	3.25	3.50
	-1	45.2	1.230	66.00			RE	1.798	1.791	1.787
							t	23.64	21.13	19.61
							Z	0.990	0.994	0.996
							pHS	3.192	3.409	3.629
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	1.784	1.782	1.787	1.786	1.785	1.784	1.783	1.782	1.781	1.786
	18.68	18.12	16.32	16.01	15.83	15.73	17.62	17.57	17.54	15.79
	0.998	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	3.860	4.100	4.104	4.339	4.582	4.829	4.845	5.093	5.343	5.580
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.785	1.784	1.781	1.780	1.780	1.779	1.786	1.786	1.785	1.784
	15.78	15.78	20.83	20.83	20.83	20.83	15.75	15.75	15.76	15.76
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.079	6.329	6.613	6.863	7.113	7.363	7.579	7.829	8.079	8.329
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 4			
	1.785	1.784	1.783	1.780	1.779	1.777				
	15.79	15.83	15.89	19.38	19.62	20.04				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.830	9.080	9.331	9.610	9.862	10.116				



CHROMATOGRAPHIC DATA (1983)

163	IODIC ACID -1			42.0	0.770	H102 159.91		pH	3.00	3.25	3.50
								RE	1.928	1.926	1.924
								t	24.69	22.03	20.41
								Z	0.997	0.998	0.999
								pHS	3.213	3.429	3.647
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.923	1.922	1.928	1.928	1.927	1.925	1.924	1.923	1.922	1.929	1.928
	19.41	18.81	16.86	16.53	16.34	16.22	18.27	18.21	18.17	16.29	16.28
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.876	4.116	4.119	4.352	4.595	4.842	4.861	5.108	5.358	5.593	5.842
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.927	1.926	1.922	1.921	1.920	1.919	1.929	1.928	1.927	1.926	1.928
	16.28	16.28	21.74	21.74	21.73	21.73	16.24	16.25	16.25	16.26	16.27
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.092	6.342	6.631	6.881	7.130	7.380	7.592	7.842	8.092	8.342	8.593
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1 , 4				
	1.927	1.926	1.924	1.921	1.920	1.917					
	16.29	16.33	16.41	20.20	20.47	20.98					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.843	9.094	9.344	9.628	9.881	10.136					
164	IODOACETIC ACID -1			42.1	3.174	C2H3I02 185.95		pH	3.00	3.25	3.50
								RE	2.782	2.524	2.338
								t	22.95	21.25	20.11
								Z	0.682	0.753	0.814
								pHS	3.471	3.623	3.780
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.195	2.089	2.081	2.024	1.982	1.956	1.953	1.938	1.928	1.930	1.927
	19.31	18.77	16.76	16.49	16.32	16.21	18.25	18.19	18.15	16.28	16.27
	0.869	0.914	0.921	0.948	0.968	0.981	0.982	0.990	0.994	0.997	0.998
	3.959	4.163	4.204	4.397	4.617	4.853	4.875	5.115	5.360	5.599	5.844
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.924	1.922	1.918	1.917	1.916	1.915	1.924	1.923	1.923	1.921	1.923
	16.26	16.26	21.71	21.70	21.70	21.70	16.23	16.23	16.24	16.25	16.25
	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.092	6.342	6.631	6.880	7.130	7.380	7.591	7.841	8.091	8.342	8.593
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1				
	1.922	1.921	1.920	1.916	1.915	1.913					
	16.28	16.32	16.39	20.17	20.44	20.95					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.843	9.093	9.344	9.628	9.880	10.135					
165	m-IODOBENZOIC ACID -1			33.4	3.851	C7H5I02 248.02		pH	3.00	3.25	3.50
								RE	5.129	4.461	3.960
								t	25.50	23.85	22.72
								Z	0.465	0.536	0.605
								pHS	3.762	3.885	4.007
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.539	3.188	3.080	2.898	2.742	2.627	2.610	2.542	2.499	2.487	2.472
	21.87	21.27	18.63	18.38	18.19	18.06	20.64	20.57	20.53	18.15	18.14
	0.679	0.757	0.789	0.840	0.889	0.929	0.934	0.959	0.976	0.986	0.992
	4.146	4.311	4.388	4.535	4.717	4.928	4.965	5.186	5.422	5.661	5.896
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.462	2.455	2.444	2.441	2.439	2.436	2.455	2.453	2.452	2.450	2.453
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	18.13
	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.141	6.388	6.693	6.941	7.190	7.440	7.637	7.887	8.137	8.387	8.639
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1				
	2.451	2.449	2.446	2.439	2.436	2.432					
	18.16	18.22	18.33	23.25	23.72	24.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.889	9.140	9.391	9.691	9.945	10.204					

166	o-iodobenzoic acid -1 33.4			2.863	C7H5I02 248.02			pHL RE t Z pHS	3.00 3.023 27.24 0.802 3.436	3.25 2.835 24.78 0.856 3.603	3.50 2.703 23.16 0.899 3.778
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.607	2.540	2.548	2.510	2.485	2.468	2.464	2.454	2.447	2.458	2.455
	22.04	21.32	18.80	18.43	18.20	18.06	20.66	20.58	20.53	18.15	18.14
	0.933	0.959	0.961	0.975	0.985	0.992	0.992	0.995	0.997	0.998	0.999
	3.973	4.191	4.213	4.421	4.651	4.892	4.919	5.163	5.410	5.641	5.888
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.452	2.450	2.441	2.440	2.438	2.436	2.454	2.453	2.451	2.450	2.453
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	18.13
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.137	6.387	6.691	6.940	7.190	7.440	7.637	7.887	8.137	8.387	8.639
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 3, 1				
	2.451	2.449	2.446	2.439	2.436	2.432					
	18.16	18.22	18.33	23.25	23.72	24.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.889	9.140	9.391	9.691	9.945	10.204					
167	p-iodobenzoic acid -1 33.4			3.930	C7H5I02 248.02			pHL RE t Z pHS	3.00 5.432 25.38 0.438 3.795	3.25 4.702 23.78 0.507 3.915	3.50 4.155 22.68 0.576 4.034
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.692	3.301	3.166	2.966	2.792	2.660	2.640	2.561	2.510	2.493	2.476
	21.85	21.26	18.61	18.37	18.18	18.06	20.64	20.57	20.53	18.15	18.14
	0.650	0.730	0.766	0.820	0.872	0.917	0.923	0.952	0.971	0.983	0.990
	4.169	4.329	4.411	4.552	4.729	4.935	4.974	5.191	5.424	5.665	5.898
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.464	2.457	2.444	2.441	2.439	2.436	2.455	2.453	2.452	2.450	2.453
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	18.13
	0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.141	6.389	6.693	6.941	7.190	7.440	7.637	7.887	8.137	8.387	8.639
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 3, 1				
	2.451	2.449	2.446	2.439	2.436	2.432					
	18.16	18.22	18.33	23.25	23.72	24.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.889	9.140	9.391	9.691	9.945	10.204					
168	4-iodobutyric acid -1 34.4			4.638	C4H7I02 214.00			pHL RE t Z pHS	3.00 9.566 24.08 0.238 4.111	3.25 8.039 22.85 0.283 4.214	3.50 6.892 22.00 0.332 4.310
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	5.893	5.000	4.364	3.958	3.553	3.189	3.086	2.855	2.674	2.545	2.484
	21.34	20.84	18.19	18.04	17.90	17.80	20.28	20.22	20.19	17.88	17.87
	0.389	0.460	0.532	0.588	0.658	0.735	0.760	0.823	0.881	0.932	0.955
	4.417	4.542	4.665	4.763	4.889	5.047	5.104	5.271	5.469	5.737	5.930
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.440	2.411	2.385	2.376	2.370	2.365	2.381	2.379	2.377	2.375	2.378
	17.86	17.86	24.59	24.58	24.58	24.57	17.82	17.83	17.83	17.84	17.86
	0.973	0.984	0.992	0.995	0.997	0.999	0.999	0.999	1.000	1.000	1.000
	6.153	6.391	6.696	6.938	7.184	7.433	7.632	7.881	8.131	8.381	8.632
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 3				
	2.376	2.374	2.372	2.365	2.362	2.358					
	17.89	17.95	18.06	22.80	23.24	24.08					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.883	9.133	9.385	9.682	9.936	10.195					

169	m-iodophenylacetic acid			C8H7IO2			pHL			3.00	3.25	3.50
	-1	34.3	4.159	262.05			RE	6.334	5.418	4.729		
							t	24.62	23.19	22.21		
							Z	0.364	0.426	0.490		
							pHS	3.891	4.004	4.114		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	4.138	3.627	3.386	3.133	2.901	2.713	2.679	2.565	2.486	2.450	2.423	
	21.46	20.92	18.30	18.10	17.94	17.82	20.33	20.26	20.22	17.91	17.90	
	0.562	0.643	0.694	0.752	0.814	0.872	0.883	0.923	0.953	0.973	0.984	
	4.238	4.384	4.482	4.607	4.766	4.957	5.001	5.203	5.428	5.676	5.900	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.405	2.394	2.380	2.376	2.373	2.370	2.387	2.386	2.384	2.382	2.385	
	17.89	17.88	24.63	24.63	24.63	24.62	17.85	17.85	17.86	17.87	17.89	
	0.991	0.995	0.997	0.998	0.999	1.000	1.000	1.000	1.000	1.000	1.000	
	6.139	6.384	6.688	6.935	7.183	7.433	7.632	7.881	8.131	8.381	8.633	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 2, 1					
	2.383	2.381	2.379	2.372	2.369	2.366						
	17.92	17.98	18.08	22.85	23.29	24.13						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.883	9.134	9.385	9.683	9.937	10.196						
170	o-iodophenylacetic acid			C8H7IO2			pHL			3.00	3.25	3.50
	-1	34.3	4.038	262.05			RE	5.758	4.954	4.350		
							t	24.77	23.28	22.26		
							Z	0.401	0.467	0.534		
							pHS	3.838	3.954	4.069		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	3.835	3.395	3.216	2.994	2.796	2.641	2.616	2.522	2.460	2.435	2.414	
	21.49	20.93	18.33	18.12	17.94	17.82	20.33	20.27	20.22	17.91	17.90	
	0.608	0.689	0.733	0.789	0.846	0.897	0.905	0.940	0.964	0.979	0.987	
	4.198	4.351	4.442	4.575	4.742	4.942	4.983	5.193	5.422	5.666	5.896	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.400	2.391	2.378	2.375	2.373	2.370	2.387	2.386	2.384	2.382	2.385	
	17.89	17.88	24.63	24.63	24.63	24.62	17.85	17.85	17.86	17.87	17.89	
	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	
	6.137	6.384	6.687	6.934	7.183	7.433	7.632	7.881	8.131	8.381	8.633	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 2, 1					
	2.383	2.381	2.379	2.372	2.369	2.366						
	17.92	17.98	18.08	22.85	23.29	24.13						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.883	9.134	9.385	9.683	9.937	10.196						
171	p-iodophenylacetic acid			C8H7IO2			pHL			3.00	3.25	3.50
	-1	34.3	4.178	262.05			RE	6.432	5.497	4.793		
							t	24.59	23.17	22.20		
							Z	0.358	0.420	0.483		
							pHS	3.900	4.012	4.121		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	4.190	3.666	3.415	3.157	2.919	2.726	2.690	2.572	2.491	2.452	2.425	
	21.46	20.92	18.30	18.10	17.94	17.82	20.33	20.26	20.22	17.91	17.90	
	0.555	0.636	0.688	0.746	0.809	0.868	0.879	0.921	0.951	0.972	0.983	
	4.244	4.390	4.489	4.612	4.770	4.959	5.004	5.205	5.429	5.677	5.900	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.406	2.395	2.380	2.376	2.373	2.370	2.387	2.386	2.384	2.382	2.385	
	17.89	17.88	24.63	24.63	24.63	24.62	17.85	17.85	17.86	17.87	17.89	
	0.990	0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	
	6.139	6.385	6.688	6.935	7.183	7.433	7.632	7.881	8.131	8.381	8.633	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 2, 1					
	2.383	2.381	2.379	2.372	2.369	2.366						
	17.92	17.98	18.08	22.85	23.29	24.13						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.883	9.134	9.385	9.683	9.937	10.196						

172	3-IODOPROPIONIC ACID			C <sub>3</sub> H <sub>5</sub> I O <sub>2</sub>			pHL	3.00	3.25	3.50
	-1	36.5	4.056	199.98			RE	5.531	4.750	4.164
							t	23.74	22.38	21.44
							Z	0.391	0.457	0.523
							pHS	3.839	3.954	4.067
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
3.665	3.236	3.048	2.834	2.642	2.490	2.465	2.373	2.311	2.284	2.263
20.73	20.21	17.76	17.57	17.41	17.29	19.65	19.58	19.55	17.37	17.36
0.596	0.677	0.724	0.780	0.839	0.891	0.900	0.936	0.961	0.978	0.987
4.194	4.345	4.441	4.571	4.736	4.933	4.974	5.181	5.410	5.656	5.884
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.249	2.241	2.229	2.226	2.224	2.221	2.236	2.235	2.233	2.231	2.234
17.36	17.35	23.68	23.67	23.67	23.66	17.32	17.32	17.33	17.34	17.35
0.992	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
6.125	6.371	6.671	6.918	7.167	7.416	7.619	7.869	8.119	8.369	8.620
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
2.233	2.231	2.229	2.223	2.221	2.218					
17.38	17.43	17.52	21.96	22.34	23.06					
1.000	1.000	1.000	1.000	1.000	1.000					
8.870	9.121	9.372	9.665	9.919	10.176					
173	5-IODOVALERIC ACID			C <sub>5</sub> H <sub>9</sub> I O <sub>2</sub>			pHL	3.00	3.25	3.50
	-1	32.3	4.770	228.03			RE	11.429	9.570	8.173
							t	25.02	23.71	22.81
							Z	0.212	0.253	0.297
							pHS	4.180	4.280	4.375
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
6.955	5.862	5.048	4.556	4.059	3.607	3.465	3.175	2.943	2.765	2.686
22.12	21.59	18.77	18.61	18.47	18.36	21.00	20.95	20.92	18.46	18.45
0.351	0.418	0.490	0.544	0.613	0.692	0.721	0.789	0.853	0.916	0.943
4.479	4.601	4.725	4.818	4.939	5.090	5.150	5.309	5.500	5.771	5.955
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.627	2.588	2.553	2.541	2.533	2.527	2.546	2.543	2.541	2.538	2.541
18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42	18.44
0.965	0.979	0.990	0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000
6.172	6.407	6.717	6.956	7.202	7.450	7.646	7.895	8.144	8.394	8.646
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
2.539	2.537	2.534	2.526	2.523	2.518					
18.48	18.54	18.66	23.77	24.28	25.27					
1.000	1.000	1.000	1.000	1.000	1.000					
8.896	9.147	9.399	9.701	9.956	10.215					
174	ISOBUTYRIC ACID			C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>			pHL	3.00	3.25	3.50
	-1	34.4	4.860	88.11			RE	11.795	9.857	8.402
							t	23.92	22.74	21.93
							Z	0.192	0.230	0.271
							pHS	4.217	4.316	4.409
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
7.130	5.984	5.054	4.552	4.040	3.564	3.401	3.095	2.842	2.629	2.545
21.30	20.82	18.16	18.02	17.90	17.80	20.27	20.22	20.19	17.88	17.87
0.320	0.383	0.458	0.509	0.576	0.655	0.687	0.757	0.826	0.901	0.931
4.510	4.628	4.759	4.847	4.962	5.106	5.169	5.320	5.502	5.781	5.955
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.479	2.435	2.396	2.383	2.374	2.367	2.382	2.380	2.378	2.375	2.378
17.86	17.86	24.59	24.58	24.58	24.57	17.82	17.83	17.83	17.84	17.86
0.957	0.974	0.987	0.992	0.996	0.998	0.998	0.999	1.000	1.000	1.000
6.166	6.397	6.705	6.941	7.186	7.433	7.633	7.882	8.131	8.381	8.632
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 7				
2.376	2.374	2.372	2.365	2.362	2.358					
17.89	17.95	18.06	22.80	23.24	24.08					
1.000	1.000	1.000	1.000	1.000	1.000					
8.883	9.133	9.385	9.682	9.936	10.195					

175	ISOCAPROIC -1	ACID 30.3	4.845		C6H12O2 116.16		pHL RE t Z pHS	3.00 12.968 26.10 0.199 4.222	3.25 10.838 24.69 0.238 4.322	3.50 9.236 23.72 0.281 4.416	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	7.839	6.585	5.646	5.080	4.508	3.984	3.812	3.475	3.202	2.987	2.895
	22.97	22.41	19.40	19.24	19.09	18.98	21.80	21.75	21.71	19.09	19.08
	0.332	0.397	0.467	0.521	0.589	0.669	0.700	0.770	0.838	0.906	0.936
	4.519	4.639	4.761	4.853	4.972	5.119	5.182	5.337	5.524	5.795	5.975
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.824	2.777	2.733	2.719	2.709	2.702	2.724	2.721	2.718	2.715	2.719
	19.07	19.06	26.75	26.74	26.74	26.73	19.23	19.03	19.04	19.05	19.07
	0.960	0.976	0.988	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000
	6.189	6.422	6.737	6.975	7.220	7.468	7.660	7.909	8.158	8.408	8.660
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1				
	2.717	2.714	2.710	2.701	2.697	2.691					
	19.12	19.19	19.32	24.83	25.43	26.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.911	9.162	9.413	9.720	9.976	10.238					
176	ISOCITRIC -1 -2 -3	ACID 29.0 55.0 74.0	3.250 4.720 6.380		C6H8O7 192.13		pHL RE t Z pHS	3.00 3.728 30.79 0.761 3.559	3.25 3.316 28.83 0.862 3.707	3.50 2.989 27.84 0.965 3.858	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.698	2.432	2.364	2.178	2.004	1.854	1.831	1.722	1.632	1.563	1.505
	27.59	28.03	25.33	26.16	27.21	28.38	31.88	33.07	34.38	33.02	34.56
	1.082	1.218	1.269	1.399	1.545	1.699	1.720	1.860	1.999	2.167	2.308
	4.030	4.222	4.291	4.465	4.661	4.875	4.908	5.122	5.351	5.627	5.846
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.449	1.400	1.344	1.319	1.300	1.287	1.309	1.305	1.301	1.298	1.300
	36.24	37.83	49.70	50.64	51.28	51.66	41.30	41.43	41.51	41.56	41.61
	2.461	2.610	2.756	2.841	2.903	2.943	2.967	2.981	2.989	2.994	2.997
	6.076	6.313	6.597	6.824	7.063	7.308	7.547	7.794	8.042	8.292	8.542
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 4				
	1.298	1.296	1.294	1.280	1.277	1.274					
	41.65	41.71	41.81	49.10	49.42	50.02					
	2.998	2.999	2.999	3.000	3.000	3.000					
	8.792	9.042	9.292	9.553	9.803	10.054					
177	ISOPHTHALIC -1 -2	ACID 28.0 53.0	3.720 4.600		C8H6O4 166.13		pHL RE t Z pHS	3.00 4.711 31.55 0.625 3.712	3.25 4.007 30.03 0.741 3.835	3.50 3.469 29.28 0.866 3.959	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.007	2.611	2.481	2.261	2.070	1.923	1.902	1.810	1.749	1.727	1.706
	29.09	29.42	26.59	27.16	27.86	28.56	32.09	32.63	33.03	30.16	30.30
	1.012	1.183	1.265	1.405	1.555	1.694	1.711	1.811	1.884	1.933	1.960
	4.099	4.263	4.342	4.490	4.670	4.877	4.908	5.123	5.354	5.604	5.836
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.692	1.683	1.667	1.663	1.660	1.656	1.680	1.678	1.677	1.675	1.678
	30.39	30.44	39.85	39.85	39.84	39.82	30.47	30.48	30.48	30.49	30.51
	1.977	1.987	1.993	1.996	1.998	1.999	1.999	2.000	2.000	2.000	2.000
	6.079	6.326	6.607	6.854	7.103	7.352	7.574	7.823	8.073	8.323	8.574
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 7				
	1.676	1.674	1.672	1.661	1.658	1.654					
	30.54	30.60	30.70	37.15	37.52	38.23					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.824	9.074	9.325	9.600	9.851	10.104					

178	o-ISOPROPYLBENZOIC ACID			C10H12O2			pHL			3.00	3.25	3.50
	-1	24.7	3.635			164.20		RE	5.753	5.118	4.642	
								t	32.26	29.66	27.90	
								Z	0.570	0.643	0.711	
								pHS	3.730	3.862	3.997	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	4.251	3.939	3.903	3.731	3.596	3.502	3.483	3.429	3.395	3.404	3.392	
	26.61	25.73	22.18	21.78	21.49	21.30	24.87	24.77	24.70	21.45	21.43	
	0.779	0.844	0.858	0.899	0.934	0.960	0.963	0.978	0.987	0.992	0.996	
	4.152	4.335	4.384	4.553	4.754	4.979	5.018	5.251	5.493	5.720	5.961	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	3.383	3.375	3.352	3.349	3.346	3.342	3.381	3.379	3.375	3.371	3.378	
	21.41	21.40	30.93	30.92	30.91	30.90	21.37	21.37	21.38	21.40	21.44	
	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.208	6.457	6.779	7.029	7.278	7.528	7.707	7.957	8.207	8.457	8.710	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1					
	3.374	3.370	3.364	3.346	3.339	3.328						
	21.50	21.62	21.83	28.87	29.94	32.19						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.961	9.212	9.465	9.790	10.050	10.320						
179	p-ISOPROPYLBENZOIC ACID			C10H12O2			pHL			3.00	3.25	3.50
	-1	24.7	4.354			164.20		RE	9.836	8.376	7.267	
								t	30.93	28.84	27.42	
								Z	0.327	0.386	0.446	
								pHS	4.020	4.130	4.236	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	6.310	5.476	5.108	4.683	4.289	3.966	3.893	3.694	3.556	3.496	3.448	
	26.36	25.59	21.94	21.67	21.44	21.29	24.82	24.74	24.69	21.44	21.42	
	0.516	0.598	0.647	0.708	0.776	0.842	0.857	0.904	0.940	0.965	0.979	
	4.357	4.499	4.588	4.709	4.862	5.047	5.098	5.296	5.518	5.757	5.978	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	3.415	3.394	3.361	3.354	3.349	3.343	3.382	3.379	3.376	3.372	3.378	
	21.41	21.40	30.93	30.92	30.91	30.90	21.37	21.37	21.38	21.40	21.44	
	0.987	0.993	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	
	6.216	6.460	6.784	7.030	7.279	7.528	7.707	7.957	8.207	8.457	8.710	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1					
	3.374	3.370	3.364	3.346	3.339	3.328						
	21.50	21.62	21.83	28.87	29.94	32.19						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.961	9.212	9.465	9.790	10.050	10.320						
180	ISOPROPYLMALONIC ACID			C6H10O4			pHL			3.00	3.25	3.50
	-1	26.0	2.943			146.14		RE	3.901	3.658	3.480	
	-2	52.0	5.879					t	32.50	29.47	27.49	
								Z	0.807	0.863	0.909	
								pHS	3.519	3.682	3.851	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	3.337	3.218	3.226	3.127	3.012	2.866	2.831	2.654	2.455	2.211	2.079	
	26.19	25.48	22.21	22.08	22.33	22.97	26.57	27.60	28.84	27.43	28.29	
	0.950	0.987	0.992	1.025	1.067	1.125	1.138	1.221	1.328	1.505	1.610	
	4.043	4.257	4.287	4.492	4.718	4.952	4.998	5.225	5.450	5.757	5.938	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	1.962	1.869	1.781	1.747	1.723	1.707	1.725	1.719	1.715	1.712	1.714	
	29.06	29.67	39.70	39.93	40.07	40.14	30.65	30.68	30.70	30.72	30.75	
	1.716	1.809	1.894	1.933	1.960	1.977	1.986	1.992	1.996	1.997	1.999	
	6.142	6.363	6.663	6.882	7.118	7.362	7.584	7.829	8.078	8.327	8.578	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 2					
	1.712	1.709	1.707	1.696	1.692	1.689						
	30.79	30.84	30.95	37.54	37.93	38.67						
	1.999	2.000	2.000	2.000	2.000	2.000						
	8.828	9.078	9.328	9.604	9.856	10.109						

181	ISOVALERIC -1	ACID 32.1	4.780		C5H10O2 102.13		pHL RE t Z pHS	3.00 11.600 25.12 0.210 4.185	3.25 9.710 23.80 0.251 4.286	3.50 8.291 22.90 0.295 4.380	
	3.75 7.053 22.20 0.348 4.484	4.00 5.942 21.67 0.415 4.605	4.00 5.112 18.83 0.487 4.729	4.25 4.612 18.67 0.541 4.823	4.50 4.107 18.53 0.610 4.943	4.75 3.647 18.42 0.689 5.093	4.75 3.501 21.08 0.718 5.154	5.00 3.206 20.99 0.787 5.313	5.25 2.969 18.52 0.851 5.503	5.50 2.787 18.51 0.915 5.773	5.75 2.707 18.51 0.942 5.957
	6.00 2.646 18.50 0.964 6.174	6.25 2.606 18.49 0.979 6.408	6.50 2.570 25.73 0.990 6.719	6.75 2.558 25.72 0.994 6.958	7.00 2.549 25.72 0.997 7.204	7.25 2.544 25.71 0.998 7.452	7.50 2.562 18.46 0.999 7.647	7.75 2.560 18.46 0.999 7.896	8.00 2.557 18.47 1.000 8.146	8.25 2.555 18.48 1.000 8.395	8.50 2.558 18.50 1.000 8.647
	8.75 2.556 18.54 1.000 8.898	9.00 2.554 18.60 1.000 9.149	9.25 2.551 18.72 1.000 9.400	9.50 2.543 23.87 1.000 9.703	9.75 2.539 24.39 1.000 9.958	10.00 2.534 25.39 1.000 10.218	(Ref.) : 3 , 1				
182	ITACONIC -1 -2	ACID 28.0 56.0	5.815 5.449		C5H6O4 130.10		pHL RE t Z pHS	3.00 5.643 29.41 0.509 3.771	3.25 4.892 27.48 0.589 3.895	3.50 4.317 26.26 0.670 4.020	
	3.75 3.820 25.52 0.761 4.161	4.00 3.385 25.25 0.864 4.329	4.00 3.230 22.33 0.915 4.412	4.25 2.959 22.63 1.003 4.563	4.50 2.690 23.28 1.111 4.745	4.75 2.434 24.26 1.237 4.947	4.75 2.377 27.71 1.267 4.996	5.00 2.170 28.80 1.397 5.195	5.25 1.989 29.89 1.536 5.406	5.50 1.827 28.12 1.702 5.691	5.75 1.747 28.66 1.788 5.881
	6.00 1.684 29.09 1.861 6.097	6.25 1.640 29.39 1.914 6.331	6.50 1.600 38.42 1.954 6.616	6.75 1.584 38.51 1.972 6.851	7.00 1.574 38.56 1.984 7.094	7.25 1.567 38.58 1.991 7.341	7.50 1.585 29.78 1.995 7.567	7.75 1.582 29.79 1.997 7.815	8.00 1.580 29.81 1.998 8.065	8.25 1.578 29.82 1.999 8.314	8.50 1.580 29.84 1.999 8.565
	8.75 1.579 29.87 2.000 8.815	9.00 1.577 29.92 2.000 9.065	9.25 1.575 30.01 2.000 9.315	9.50 1.565 36.07 2.000 9.587	9.75 1.563 36.40 2.000 9.838	10.00 1.560 37.03 2.000 10.091	(Ref.) : 12 , 2				
183	2-KETOGLUTARIC -1 -2	ACID 33.6 59.0	2.800 5.006		C5H6O5 146.10		pHL RE t Z pHS	3.00 2.869 27.86 0.849 3.418	3.25 2.675 25.63 0.916 3.590	3.50 2.523 24.40 0.980 3.768	
	3.75 2.387 23.93 1.048 3.967	4.00 2.251 24.19 1.130 4.184	4.00 2.232 21.77 1.152 4.235	4.25 2.106 22.59 1.247 4.438	4.50 1.972 23.74 1.364 4.652	4.75 1.843 25.02 1.497 4.874	4.75 1.822 28.13 1.517 4.908	5.00 1.718 29.28 1.642 5.123	5.25 1.634 30.23 1.754 5.350	5.50 1.582 28.22 1.850 5.613	5.75 1.548 28.60 1.904 5.832
	6.00 1.524 28.86 1.942 6.067	6.25 1.509 29.02 1.966 6.311	6.50 1.491 37.46 1.982 6.588	6.75 1.485 37.51 1.990 6.832	7.00 1.481 37.53 1.994 7.079	7.25 1.477 37.53 1.997 7.328	7.50 1.495 29.20 1.998 7.557	7.75 1.494 29.21 1.999 7.806	8.00 1.492 29.22 1.999 8.056	8.25 1.491 29.23 2.000 8.306	8.50 1.493 29.24 2.000 8.556
	8.75 1.492 29.27 2.000 8.806	9.00 1.490 29.32 2.000 9.057	9.25 1.488 29.40 2.000 9.307	9.50 1.480 35.11 2.000 9.576	9.75 1.478 35.41 2.000 9.827	10.00 1.475 35.97 2.000 10.078	(Ref.) : 10				

184	LACTIC ACID	(S)			C3H6O3			pH	3.00	3.25	3.50
	-1	36.5	3.860		90.08			RE	4.778	4.146	3.673
								t	24.01	22.53	21.53
								Z	0.455	0.526	0.595
								pHS	3.754	3.876	3.996
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.276	2.943	2.830	2.659	2.513	2.403	2.388	2.323	2.281	2.267	2.253
	20.77	20.22	17.80	17.58	17.41	17.29	19.65	19.59	19.55	17.37	17.36
	0.669	0.747	0.782	0.834	0.884	0.925	0.930	0.957	0.974	0.985	0.991
	4.134	4.297	4.379	4.524	4.703	4.913	4.949	5.167	5.402	5.644	5.879
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.243	2.237	2.228	2.225	2.223	2.221	2.235	2.234	2.233	2.231	2.234
	17.35	17.35	23.68	23.67	23.67	23.66	17.32	17.32	17.33	17.34	17.35
	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.123	6.370	6.669	6.917	7.167	7.416	7.619	7.869	8.119	8.369	8.620
	8.75	9.00	9.25	9.50	9.75	10.00					
	2.233	2.231	2.229	2.223	2.221	2.218					
	17.38	17.43	17.52	21.96	22.34	23.06					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.870	9.121	9.372	9.665	9.919	10.176					
								(Ref.)	3	1	
185	LAURYL SULFONIC ACID				C12H26O3S			pH	3.00	3.25	3.50
	-1	22.9	1.000		250.40			RE	3.641	3.637	3.635
								t	36.88	32.73	30.07
								Z	0.997	0.998	0.999
								pHS	3.439	3.634	3.830
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.633	3.631	3.660	3.658	3.656	3.652	3.642	3.638	3.634	3.665	3.662
	28.30	27.19	23.48	22.90	22.53	22.32	26.19	26.07	25.99	22.47	22.45
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	4.043	4.273	4.278	4.497	4.732	4.976	5.013	5.259	5.507	5.729	5.977
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.658	3.654	3.629	3.626	3.623	3.619	3.665	3.663	3.659	3.655	3.662
	22.43	22.42	32.74	32.73	32.71	32.70	22.38	22.39	22.40	22.42	22.47
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.226	6.475	6.802	7.052	7.302	7.551	7.726	7.976	8.226	8.476	8.730
	8.75	9.00	9.25	9.50	9.75	10.00					
	3.657	3.652	3.646	3.624	3.614	3.600					
	22.54	22.68	22.93	30.68	32.02	34.99					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.981	9.233	9.486	9.818	10.081	10.357					
								(Ref.)	2	12	
186	LEVULINIC ACID				C5H8O3			pH	3.00	3.25	3.50
	-1	33.4	4.602		116.12			RE	9.495	7.988	6.855
								t	24.60	23.30	22.40
								Z	0.247	0.294	0.344
								pHS	4.097	4.200	4.298
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	5.870	4.991	4.391	3.987	3.586	3.229	3.132	2.906	2.732	2.612	2.553
	21.71	21.20	18.47	18.31	18.17	18.06	20.62	20.56	20.52	18.15	18.14
	0.403	0.476	0.546	0.603	0.672	0.749	0.772	0.835	0.889	0.937	0.959
	4.406	4.533	4.652	4.752	4.882	5.043	5.099	5.270	5.471	5.735	5.932
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.511	2.484	2.458	2.449	2.443	2.439	2.456	2.454	2.452	2.450	2.453
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	18.13
	0.975	0.986	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000
	6.157	6.396	6.703	6.945	7.192	7.441	7.638	7.887	8.137	8.387	8.639
	8.75	9.00	9.25	9.50	9.75	10.00					
	2.451	2.449	2.446	2.439	2.436	2.432					
	18.16	18.22	18.33	23.25	23.72	24.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.889	9.140	9.391	9.691	9.945	10.204					
								(Ref.)	10	3	



187	MALEIC ACID				C4H4O4			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	41.3	1.921	116.07	2.037	2.005	1.984					
	-2	62.4	6.225		24.74	22.20	20.64					
					0.960	0.976	0.987					
					3.246	3.452	3.662					
	3.75	4.00	4.00	4.25	4.50	4.75	4.75		5.00	5.25	5.50	5.75
	1.969	1.957	1.964	1.953	1.939	1.919	1.916		1.884	1.837	1.765	1.696
	19.69	19.17	17.16	16.96	16.99	17.26	19.45		20.07	21.07	20.73	22.21
	0.996	1.005	1.005	1.015	1.029	1.052	1.055		1.094	1.157	1.275	1.386
	3.886	4.123	4.132	4.362	4.604	4.851	4.875		5.121	5.368	5.671	5.887
	6.00	6.25	6.50	6.75	7.00	7.25	7.50		7.75	8.00	8.25	8.50
1.624	1.557	1.484	1.452	1.427	1.411	1.418	1.412	1.408	1.405	1.406		
23.77	25.22	34.13	34.95	35.54	35.91	28.34	28.46	28.53	28.58	28.61		
1.514	1.643	1.783	1.856	1.910	1.947	1.968	1.982	1.990	1.994	1.997		
6.108	6.336	6.637	6.850	7.081	7.323	7.557	7.801	8.049	8.298	8.548		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1						
1.405	1.403	1.401	1.394	1.392	1.390							
28.65	28.70	28.78	34.15	34.42	34.91							
1.998	1.999	1.999	2.000	2.000	2.000							
8.798	9.048	9.298	9.564	9.815	10.066							
188	MALIC ACID				C4H6O5			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	32.6	3.460	134.09	3.897	3.436	3.082					
	-2	59.0	5.050		27.43	25.72	24.76					
					0.640	0.730	0.821					
					3.610	3.748	3.889					
	3.75	4.00	4.00	4.25	4.50	4.75	4.75		5.00	5.25	5.50	5.75
	2.777	2.508	2.430	2.247	2.068	1.906	1.878		1.755	1.659	1.595	1.557
	24.35	24.53	22.12	22.81	23.82	25.01	28.16		29.26	30.19	28.20	28.58
	0.921	1.034	1.081	1.188	1.317	1.459	1.482		1.613	1.732	1.838	1.895
	4.050	4.236	4.311	4.481	4.676	4.887	4.924		5.133	5.355	5.621	5.836
	6.00	6.25	6.50	6.75	7.00	7.25	7.50		7.75	8.00	8.25	8.50
1.530	1.512	1.492	1.486	1.481	1.478	1.495	1.494	1.492	1.491	1.493		
28.85	29.02	37.46	37.51	37.53	37.53	29.20	29.21	29.22	29.23	29.24		
1.937	1.963	1.980	1.988	1.993	1.996	1.998	1.999	1.999	2.000	2.000		
6.069	6.312	6.589	6.832	7.080	7.329	7.557	7.806	8.056	8.306	8.556		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 7						
1.492	1.490	1.488	1.480	1.478	1.475							
29.27	29.32	29.40	35.11	35.41	35.97							
2.000	2.000	2.000	2.000	2.000	2.000							
8.806	9.057	9.307	9.576	9.827	10.078							
189	MALONIC ACID (S)				C3H4O4			pHL RE t Z pHS	3.00	3.25	3.50	
	-1	40.7	2.847	104.06	2.489	2.317	2.195					
	-2	67.0	5.696		24.10	22.12	20.87					
					0.795	0.856	0.907					
					3.384	3.554	3.730					
	3.75	4.00	4.00	4.25	4.50	4.75	4.75		5.00	5.25	5.50	5.75
	2.102	2.028	2.026	1.971	1.910	1.836	1.824		1.737	1.640	1.528	1.464
	20.11	19.78	17.73	17.83	18.29	19.16	21.57		22.89	24.44	24.18	25.23
	0.951	0.992	0.998	1.037	1.087	1.157	1.168		1.264	1.386	1.563	1.671
	3.928	4.148	4.182	4.394	4.625	4.864	4.897		5.129	5.362	5.664	5.860
	6.00	6.25	6.50	6.75	7.00	7.25	7.50		7.75	8.00	8.25	8.50
1.409	1.367	1.330	1.314	1.303	1.296	1.306	1.304	1.302	1.300	1.301		
26.13	26.81	34.51	34.78	34.96	35.05	27.83	27.87	27.89	27.91	27.93		
1.772	1.853	1.917	1.949	1.970	1.983	1.990	1.994	1.997	1.998	1.999		
6.076	6.308	6.588	6.816	7.058	7.304	7.541	7.788	8.038	8.287	8.538		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref) : 10 , 1						
1.300	1.299	1.298	1.292	1.291	1.289							
27.95	28.00	28.07	33.02	33.25	33.68							
1.999	2.000	2.000	2.000	2.000	2.000							
8.787	9.037	9.288	9.549	9.800	10.051							

190	MANDELIC ACID			C8H8O3			pHL	3.00	3.25	3.50
	-1	28.3	3.411	152.15			RE	4.483	4.041	3.715
							t	29.55	27.15	25.53
							Z	0.637	0.709	0.773
							pHS	3.626	3.767	3.912
	3.75	4.00	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75
	3.454	3.253	3.241	3.130	3.047	2.991	2.981	2.949	2.928	2.938
	24.36	23.56	20.50	20.13	19.87	19.70	22.80	22.70	22.65	19.82
	0.834	0.887	0.897	0.930	0.956	0.973	0.975	0.986	0.992	0.997
	4.079	4.273	4.315	4.496	4.708	4.938	4.973	5.210	5.454	5.683
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.925	2.920	2.904	2.902	2.900	2.897	2.925	2.923	2.921	2.918
	19.79	19.79	28.05	28.04	28.03	28.02	19.75	19.75	19.76	19.78
	0.998	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.175	6.424	6.738	6.987	7.237	7.487	7.674	7.924	8.174	8.424
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 7			
	2.920	2.917	2.913	2.901	2.896	2.889				
	19.85	19.94	20.09	26.06	26.78	28.24				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.927	9.178	9.430	9.742	10.000	10.263				
191	MES (S)			C6H13NO4S			pHL	3.00	3.25	3.50
	-1	28.0	6.095	195.23			RE	51.093	41.949	35.109
							t	27.00	25.62	24.68
							Z	0.053	0.065	0.078
							pHS	4.838	4.929	5.012
	3.75	4.00	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75
	29.119	23.671	17.940	15.770	13.471	11.209	9.832	8.414	7.069	4.581
	23.94	23.39	20.11	19.98	19.86	19.77	22.74	22.70	22.68	19.91
	0.094	0.116	0.155	0.177	0.207	0.250	0.286	0.335	0.401	0.584
	5.101	5.201	5.343	5.410	5.495	5.598	5.678	5.776	5.897	6.212
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	4.177	3.799	3.323	3.200	3.099	3.028	3.021	2.993	2.975	2.963
	19.90	19.90	28.21	28.21	28.22	28.22	19.87	19.87	19.88	19.89
	0.695	0.767	0.878	0.913	0.944	0.966	0.978	0.987	0.993	0.996
	6.422	6.580	6.921	7.083	7.285	7.511	7.711	7.940	8.182	8.429
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 9			
	2.957	2.952	2.947	2.934	2.929	2.921				
	19.97	20.06	20.22	26.26	27.01	28.51				
	0.999	0.999	1.000	1.000	1.000	1.000				
	8.930	9.181	9.433	9.746	10.003	10.268				
							2-(N-Morpholino)ethane sulfonic acid			
192	MESACONIC ACID			C5H6O4			pHL	3.00	3.25	3.50
	-1	28.0	3.098	130.10			RE	3.612	3.257	2.968
	-2	56.0	4.750				t	31.58	29.33	28.16
							Z	0.809	0.902	0.995
							pHS	3.527	3.682	3.843
	3.75	4.00	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75
	2.704	2.453	2.392	2.206	2.031	1.884	1.861	1.759	1.684	1.647
	27.76	28.05	25.26	25.94	26.76	27.57	30.94	31.56	32.03	29.40
	1.099	1.220	1.264	1.380	1.510	1.640	1.657	1.762	1.847	1.910
	4.022	4.221	4.288	4.466	4.663	4.876	4.909	5.123	5.351	5.607
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.602	1.590	1.573	1.569	1.565	1.562	1.582	1.581	1.579	1.577
	29.68	29.75	38.63	38.64	38.63	38.62	29.80	29.81	29.81	29.82
	1.967	1.981	1.990	1.994	1.997	1.998	1.999	1.999	2.000	2.000
	6.072	6.318	6.596	6.842	7.091	7.340	7.565	7.814	8.064	8.314
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 2			
	1.578	1.577	1.575	1.565	1.563	1.560				
	29.87	29.92	30.02	36.07	36.40	37.03				
	2.000	2.000	2.000	2.000	2.000	2.000				
	8.815	9.065	9.315	9.587	9.838	10.091				

193	MESOTARTARIC ACID			C4H6O6			pHL RE t Z pHS	3.00	3.25	3.50		
	-1	32.4	3.222	150.09	3.392	3.029		2.743				
	-2	60.6	4.815		28.30	26.49		25.57				
					0.743	0.839		0.934				
					3.531	3.680		3.835				
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	2.491	2.261	2.201	2.035	1.878	1.743		1.723	1.626	1.555	1.517	1.490
	25.32	25.71	23.32	24.10	25.09	26.09		29.16	29.97	30.60	28.35	28.58
	1.040	1.162	1.208	1.325	1.459	1.595		1.614	1.728	1.822	1.895	1.935
	4.009	4.205	4.275	4.453	4.651	4.865		4.898	5.110	5.338	5.598	5.822
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
1.472	1.461	1.446	1.442	1.438	1.435	1.452	1.451	1.449	1.448	1.450		
28.74	28.83	37.00	37.02	37.02	37.02	28.91	28.92	28.93	28.94	28.95		
1.961	1.978	1.988	1.993	1.996	1.998	1.999	1.999	2.000	2.000	2.000		
6.060	6.306	6.579	6.825	7.073	7.322	7.552	7.802	8.052	8.302	8.552		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 7						
1.449	1.448	1.446	1.438	1.436	1.434							
28.98	29.02	29.11	34.64	34.93	35.45							
2.000	2.000	2.000	2.000	2.000	2.000							
8.802	9.052	9.303	9.570	9.821	10.072							
194	METHACRYLIC ACID			C4H6O2			pHL RE t Z pHS	3.00	3.25	3.50		
	-1	36.7	4.483	86.09	7.858	6.634		5.716				
					23.20	22.03		21.22				
					0.272	0.323		0.375				
					4.033	4.137		4.237				
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	4.918	4.208	3.738	3.411	3.089	2.808		2.739	2.561	2.427	2.340	2.295
	20.59	20.12	17.64	17.49	17.36	17.25		19.58	19.52	19.49	17.33	17.32
	0.438	0.513	0.583	0.640	0.709	0.782		0.802	0.859	0.908	0.948	0.967
	4.347	4.478	4.597	4.701	4.835	5.002		5.055	5.232	5.439	5.702	5.905
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
2.263	2.243	2.224	2.218	2.214	2.210	2.224	2.222	2.221	2.219	2.221		
17.31	17.31	23.59	23.59	23.59	23.58	17.27	17.28	17.28	17.29	17.30		
0.980	0.988	0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000		
6.134	6.375	6.676	6.919	7.166	7.415	7.619	7.868	8.118	8.368	8.619		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10						
2.220	2.218	2.216	2.211	2.208	2.205							
17.33	17.39	17.48	21.89	22.26	22.97							
1.000	1.000	1.000	1.000	1.000	1.000							
8.869	9.120	9.371	9.664	9.918	10.174							
195	METHOXYACETIC ACID			C3H6O3			pHL RE t Z pHS	3.00	3.25	3.50		
	-1	36.5	3.570	90.08	3.934	3.478		3.139				
					24.46	22.79		21.66				
					0.556	0.630		0.700				
					3.637	3.770		3.905				
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	2.863	2.642	2.597	2.480	2.387	2.323		2.315	2.277	2.254	2.252	2.244
	20.83	20.24	17.86	17.60	17.41	17.29		19.65	19.59	19.55	17.37	17.36
	0.769	0.836	0.855	0.896	0.932	0.958		0.961	0.977	0.987	0.992	0.995
	4.059	4.241	4.303	4.469	4.669	4.893		4.923	5.154	5.395	5.633	5.874
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
2.238	2.234	2.226	2.224	2.223	2.221	2.235	2.234	2.233	2.231	2.234		
17.35	17.35	23.68	23.67	23.67	23.66	17.32	17.32	17.33	17.34	17.35		
0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
6.121	6.369	6.668	6.917	7.166	7.416	7.619	7.869	8.119	8.369	8.620		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 7						
2.233	2.231	2.229	2.223	2.221	2.218							
17.38	17.43	17.52	21.96	22.34	23.06							
1.000	1.000	1.000	1.000	1.000	1.000							
8.870	9.121	9.372	9.665	9.919	10.176							

196	m-METHOXYBENZOIC -1	ACID 28.3	4.088		C8H8O3 152.15		pHL RE t Z pHS	3.00 7.060 28.31 0.399 3.885	3.25 6.077 26.42 0.465 4.001	3.50 5.335 25.13 0.531 4.115	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	4.701	4.159	3.961	3.682	3.433	3.240	3.205	3.088	3.011	2.986	2.959
	24.17	23.48	20.33	20.06	19.85	19.70	22.77	22.69	22.64	19.82	19.80
	0.605	0.687	0.727	0.784	0.843	0.895	0.904	0.939	0.963	0.978	0.987
	4.245	4.398	4.482	4.615	4.784	4.984	5.028	5.239	5.469	5.707	5.937
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.941	2.929	2.909	2.905	2.901	2.898	2.925	2.923	2.921	2.918	2.923
	19.79	19.79	28.05	28.04	28.03	28.02	19.75	19.75	19.76	19.78	19.80
	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.179	6.426	6.741	6.988	7.237	7.487	7.674	7.924	8.174	8.424	8.676
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1				
	2.920	2.917	2.913	2.901	2.896	2.889					
	19.85	19.94	20.09	26.06	26.78	28.24					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.927	9.178	9.430	9.742	10.000	10.263					
197	o-METHOXYBENZOIC -1	ACID 28.3	4.094		C8H8O3 152.15		pHL RE t Z pHS	3.00 7.093 28.30 0.397 3.888	3.25 6.103 26.41 0.463 4.003	3.50 5.356 25.13 0.529 4.117	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	4.718	4.173	3.971	3.690	3.439	3.244	3.208	3.091	3.013	2.986	2.959
	24.17	23.48	20.32	20.06	19.85	19.70	22.77	22.69	22.64	19.82	19.80
	0.603	0.684	0.725	0.783	0.842	0.894	0.903	0.938	0.963	0.978	0.987
	4.246	4.400	4.483	4.617	4.785	4.984	5.029	5.240	5.470	5.708	5.938
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.941	2.929	2.909	2.905	2.901	2.898	2.925	2.923	2.921	2.918	2.923
	19.79	19.79	28.05	28.04	28.03	28.02	19.75	19.75	19.76	19.78	19.80
	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.179	6.426	6.741	6.988	7.237	7.487	7.674	7.924	8.174	8.424	8.676
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1				
	2.920	2.917	2.913	2.901	2.896	2.889					
	19.85	19.94	20.09	26.06	26.78	28.24					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.927	9.178	9.430	9.742	10.000	10.263					
198	p-METHOXYBENZOIC -1	ACID 30.0	4.471		C8H8O3 152.15		pHL RE t Z pHS	3.00 9.253 26.64 0.284 4.048	3.25 7.823 25.07 0.337 4.154	3.50 6.745 24.01 0.392 4.256	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	5.810	4.985	4.511	4.114	3.731	3.403	3.324	3.118	2.967	2.880	2.829
	23.20	22.60	19.58	19.38	19.21	19.08	21.95	21.89	21.85	19.19	19.18
	0.456	0.534	0.596	0.656	0.725	0.797	0.816	0.872	0.917	0.952	0.970
	4.369	4.503	4.610	4.719	4.859	5.032	5.085	5.269	5.480	5.733	5.942
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.793	2.770	2.744	2.737	2.732	2.727	2.751	2.749	2.746	2.744	2.747
	19.17	19.17	26.93	26.93	26.92	26.91	19.13	19.13	19.14	19.15	19.18
	0.982	0.990	0.995	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000
	6.174	6.416	6.729	6.973	7.221	7.470	7.661	7.911	8.160	8.410	8.663
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1				
	2.745	2.742	2.739	2.729	2.725	2.719					
	19.22	19.30	19.43	25.00	25.62	26.84					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.913	9.164	9.416	9.723	9.980	10.242					

199	p-METHOXYPHENYLACETIC ACID			C9H10O3			pHL	3.00	3.25	3.50
	-1	29.7	4.361	166.18			RE	8.480	7.200	6.235
							t	26.96	25.33	24.21
							Z	0.314	0.371	0.429
							pHS	3.999	4.108	4.213
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	5.402	4.671	4.293	3.934	3.595	3.312	3.249	3.074	2.948	2.884
	23.37	22.75	19.71	19.50	19.32	19.18	22.10	22.03	21.98	19.30
	0.497	0.578	0.635	0.694	0.762	0.829	0.845	0.895	0.934	0.962
	4.330	4.469	4.570	4.685	4.833	5.013	5.064	5.256	5.473	5.721
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.812	2.793	2.770	2.764	2.760	2.756	2.780	2.778	2.776	2.773
	19.27	19.27	27.12	27.11	27.11	27.10	19.23	19.24	19.24	19.26
	0.986	0.992	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000
	6.173	6.417	6.730	6.976	7.224	7.473	7.663	7.913	8.163	8.413
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 2, 7			
	2.774	2.772	2.768	2.758	2.753	2.747				
	19.33	19.40	19.54	25.18	25.81	27.07				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.915	9.166	9.418	9.727	9.983	10.245				
200	METHYLETHYLMALONIC ACID			C6H10O4			pHL	3.00	3.25	3.50
	-1	25.0	2.860	146.14			RE	3.954	3.743	3.593
	-2	50.0	6.413				t	33.54	30.28	28.13
							Z	0.831	0.879	0.917
							pHS	3.514	3.680	3.853
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	3.479	3.393	3.411	3.352	3.292	3.221	3.201	3.103	2.965	2.745
	26.66	25.76	22.34	21.96	21.83	21.97	25.57	26.03	26.81	25.10
	0.949	0.974	0.976	0.994	1.013	1.036	1.041	1.076	1.129	1.240
	4.048	4.265	4.285	4.492	4.721	4.960	5.001	5.241	5.480	5.796
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.380	2.207	2.001	1.925	1.864	1.821	1.825	1.809	1.799	1.791
	27.40	28.50	39.61	40.12	40.52	40.77	31.00	31.10	31.16	31.21
	1.451	1.576	1.743	1.819	1.882	1.928	1.956	1.974	1.985	1.992
	6.199	6.412	6.740	6.930	7.148	7.382	7.605	7.842	8.087	8.335
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 2			
	1.788	1.785	1.782	1.769	1.766	1.761				
	31.30	31.36	31.48	38.37	38.80	39.61				
	1.997	1.998	1.999	2.000	2.000	2.000				
	8.835	9.085	9.335	9.614	9.866	10.119				
201	METHYLMALONIC ACID			C4H6O4			pHL	3.00	3.25	3.50
	-1	29.3	3.072	118.09			RE	3.665	3.384	3.177
	-2	58.5	5.787				t	29.59	27.03	25.36
							Z	0.757	0.822	0.877
							pHS	3.518	3.675	3.839
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	3.010	2.871	2.866	2.758	2.636	2.491	2.459	2.293	2.114	1.901
	24.28	23.72	20.84	20.82	21.18	21.92	25.13	26.22	27.48	26.38
	0.928	0.975	0.983	1.024	1.075	1.142	1.157	1.248	1.362	1.545
	4.024	4.234	4.273	4.474	4.696	4.929	4.974	5.197	5.421	5.730
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.698	1.626	1.559	1.533	1.514	1.502	1.515	1.511	1.508	1.506
	27.87	28.41	37.24	37.43	37.55	37.62	29.25	29.28	29.29	29.31
	1.748	1.833	1.907	1.942	1.966	1.980	1.988	1.993	1.996	1.998
	6.116	6.339	6.632	6.852	7.089	7.334	7.563	7.810	8.058	8.308
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2, 1			
	1.506	1.504	1.502	1.494	1.491	1.489				
	29.36	29.41	29.50	35.26	35.57	36.14				
	1.999	2.000	2.000	2.000	2.000	2.000				
	8.808	9.058	9.308	9.578	9.829	10.080				

202	METHYLSULFONIC ACID				CH4O3S			pH	3.00	3.25	3.50
	-1	50.6	-2.000				RE	1.584	1.584	1.584	
							t	22.29	19.92	18.52	
							Z	1.000	1.000	1.000	
							pHS	3.145	3.371	3.598	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.584	1.583	1.587	1.587	1.586	1.586	1.585	1.585	1.584	1.588	1.587
	17.67	17.17	15.57	15.29	15.13	15.04	16.72	16.68	16.65	15.10	15.09
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.834	4.077	4.079	4.317	4.562	4.810	4.823	5.072	5.321	5.561	5.811
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.587	1.586	1.584	1.584	1.583	1.583	1.588	1.587	1.587	1.586	1.587
	15.09	15.09	19.58	19.58	19.58	19.58	15.06	15.06	15.06	15.07	15.08
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.060	6.310	6.587	6.837	7.087	7.337	7.560	7.810	8.060	8.310	8.561
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 2 , 12				
	1.587	1.586	1.585	1.584	1.583	1.582					
	15.09	15.12	15.17	18.26	18.45	18.78					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.811	9.061	9.312	9.584	9.836	10.089					
203	2-NAPHTALENESULFONIC ACID				C10H8O3S			pH	3.00	3.25	3.50
	-1	31.3	0.167				RE	2.614	2.613	2.613	
							t	29.64	26.35	24.30	
							Z	0.999	1.000	1.000	
							pHS	3.318	3.523	3.730	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.612	2.611	2.626	2.625	2.624	2.621	2.618	2.616	2.613	2.628	2.627
	22.99	22.18	19.51	19.08	18.82	18.67	21.45	21.37	21.32	18.77	18.75
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.951	4.186	4.190	4.416	4.656	4.901	4.929	5.175	5.424	5.653	5.901
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.625	2.623	2.612	2.611	2.609	2.607	2.629	2.627	2.626	2.623	2.627
	18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.151	6.400	6.708	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 2				
	2.625	2.622	2.619	2.610	2.607	2.601					
	18.79	18.86	18.98	24.28	24.83	25.91					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.903	9.154	9.406	9.710	9.966	10.226					
204	NICOTINIC ACID				C6H5NO2			pH	3.00	3.25	3.50
	1	34.6	2.070				RE	11.277	9.448	8.068	
	-1	-34.6	4.819				t	24.32	23.01	22.10	
							Z	0.200	0.239	0.280	
							pHS	4.216	4.309	4.398	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	6.856	5.763	4.887	4.408	3.920	3.468	3.318	3.028	2.791	2.596	2.517
	21.38	20.84	18.16	18.01	17.87	17.76	20.21	20.16	20.12	17.83	17.82
	0.331	0.395	0.471	0.523	0.590	0.669	0.700	0.770	0.837	0.907	0.936
	4.497	4.614	4.743	4.832	4.948	5.094	5.156	5.309	5.495	5.771	5.949
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.456	2.415	2.379	2.367	2.359	2.353	2.368	2.365	2.363	2.361	2.364
	17.81	17.81	24.49	24.49	24.49	24.48	17.77	17.78	17.78	17.79	17.81
	0.960	0.976	0.988	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000
	6.162	6.394	6.702	6.939	7.184	7.432	7.632	7.880	8.130	8.380	8.631
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) · 10				
	2.362	2.360	2.357	2.351	2.348	2.344					
	17.84	17.90	18.00	22.72	23.15	23.97					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.882	9.132	9.383	9.680	9.935	10.193					

205	NITRIC ACID				HNO <sub>3</sub>		pHL RE t Z pHS	3.00	3.25	3.50		
	-1	74.1	-1.370	63.01		1.069		1.069	1.069			
						18.57		16.69	15.63			
						1.000		1.000	1.000			
						3.020		3.267	3.513			
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	1.069	1.069	1.069	1.069	1.069	1.069		1.069	1.069	1.069	1.069	1.069
	15.03	14.69	13.62	13.43	13.32	13.26		14.39	14.36	14.34	13.29	13.29
	1.000	1.000	1.000	1.000	1.000	1.000		1.000	1.000	1.000	1.000	1.000
	3.761	4.010	4.010	4.259	4.508	4.758		4.759	5.009	5.259	5.500	5.758
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
	1.069	1.069	1.069	1.069	1.069	1.069		1.069	1.069	1.069	1.069	1.069
13.29	13.29	16.31	16.31	16.31	16.31	13.26	13.27	13.27	13.28	13.28		
1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
6.008	6.258	6.511	6.761	7.011	7.261	7.507	7.758	8.008	8.258	8.508		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1, 2						
1.069	1.069	1.069	1.069	1.069	1.069							
13.29	13.30	13.33	15.38	15.47	15.63							
1.000	1.000	1.000	1.000	1.000	1.000							
8.758	9.008	9.258	9.511	9.761	10.011							
206	2-NITRO-3-BROMOBENZOIC ACID				C <sub>7</sub> H <sub>4</sub> BrNO <sub>4</sub>		pHL RE t Z pHS	3.00	3.25	3.50		
	-1	28.2	2.495	246.02		3.222		3.116	3.045			
						31.18		27.99	25.92			
						0.901		0.933	0.955			
						3.421		3.603	3.790			
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	2.995	2.961	2.979	2.960	2.946	2.936		2.931	2.924	2.919	2.937	2.935
	24.53	23.65	20.66	20.20	19.92	19.74		22.85	22.76	22.70	19.86	19.84
	0.972	0.983	0.984	0.990	0.994	0.997		0.997	0.998	0.999	0.999	1.000
	3.996	4.222	4.234	4.450	4.684	4.927		4.958	5.203	5.451	5.677	5.925
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
	2.932	2.929	2.914	2.913	2.910	2.907		2.936	2.934	2.932	2.929	2.934
19.83	19.83	28.12	28.11	28.10	28.09	19.79	19.79	19.80	19.82	19.84		
1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
6.175	6.424	6.738	6.988	7.238	7.488	7.674	7.924	8.174	8.425	8.677		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3						
2.931	2.928	2.924	2.912	2.907	2.899							
19.89	19.98	20.13	26.13	26.86	28.33							
1.000	1.000	1.000	1.000	1.000	1.000							
8.928	9.179	9.431	9.744	10.001	10.265							
207	3-NITRO-2-BROMOBENZOIC ACID				C <sub>7</sub> H <sub>4</sub> BrNO <sub>4</sub>		pHL RE t Z pHS	3.00	3.25	3.50		
	-1	28.2	2.979	246.02		3.686		3.445	3.274			
						30.47		27.66	25.79			
						0.784		0.840	0.886			
						3.506		3.667	3.835			
	3.75	4.00	4.00	4.25	4.50	4.75		4.75	5.00	5.25	5.50	5.75
	3.145	3.054	3.066	3.015	2.979	2.955		2.949	2.934	2.925	2.941	2.937
	24.49	23.64	20.62	20.19	19.91	19.74		22.85	22.76	22.70	19.86	19.84
	0.923	0.952	0.954	0.971	0.982	0.990		0.991	0.995	0.997	0.998	0.999
	4.025	4.239	4.261	4.464	4.691	4.930		4.963	5.205	5.452	5.679	5.926
	6.00	6.25	6.50	6.75	7.00	7.25		7.50	7.75	8.00	8.25	8.50
	2.933	2.929	2.915	2.913	2.910	2.908		2.936	2.934	2.932	2.929	2.934
19.83	19.83	28.12	28.11	28.10	28.09	19.79	19.79	19.80	19.82	19.84		
0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
6.175	6.424	6.739	6.988	7.238	7.488	7.674	7.924	8.174	8.425	8.677		
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3						
2.931	2.928	2.924	2.912	2.907	2.899							
19.89	19.98	20.13	26.13	26.86	28.33							
1.000	1.000	1.000	1.000	1.000	1.000							
8.928	9.179	9.431	9.744	10.001	10.265							

208	3-NITRO-4-BROMOBENZOIC ACID					C7H4BrNO4 246.02	pHL RE t z pHS	3.00 4.415 29.70 0.650 3.616	3.25 3.991 27.25 0.721 3.758	3.50 3.679 25.61 0.784 3.905						
	-1	28.2	3.377													
	3.75	4.00	4.00	4.25	4.50						4.75	4.75	5.00	5.25	5.50	5.75
	3.431	3.241	3.232	3.127	3.049						2.997	2.987	2.957	2.937	2.948	2.941
	24.42	23.62	20.55	20.17	19.91						19.74	22.85	22.75	22.70	19.86	19.84
	0.843	0.894	0.903	0.934	0.959						0.975	0.977	0.987	0.992	0.995	0.997
	4.074	4.270	4.310	4.493	4.706						4.938	4.973	5.210	5.454	5.683	5.928
	6.00	6.25	6.50	6.75	7.00						7.25	7.50	7.75	8.00	8.25	8.50
	2.935	2.931	2.915	2.913	2.911						2.908	2.936	2.934	2.932	2.929	2.934
	19.83	19.83	28.12	28.11	28.10						28.09	19.79	19.79	19.80	19.82	19.84
	0.999	0.999	1.000	1.000	1.000						1.000	1.000	1.000	1.000	1.000	1.000
	6.175	6.425	6.739	6.988	7.238						7.488	7.675	7.924	8.174	8.425	8.677
	8.75	9.00	9.25	9.50	9.75						10.00	(Ref.) : 3				
2.931	2.928	2.924	2.912	2.907	2.899											
19.89	19.98	20.13	26.13	26.86	28.33											
1.000	1.000	1.000	1.000	1.000	1.000											
8.928	9.179	9.431	9.744	10.001	10.265											
209	2-NITRO-3-CHLOROBENZOIC ACID					C7H4ClNO4 201.57	pHL RE t z pHS	3.00 2.857 29.10 0.912 3.377	3.25 2.771 26.14 0.941 3.563	3.50 2.714 24.23 0.961 3.755						
	-1	31.3	2.398													
	3.75	4.00	4.00	4.25	4.50						4.75	4.75	5.00	5.25	5.50	5.75
	2.674	2.648	2.662	2.646	2.636						2.628	2.625	2.619	2.615	2.630	2.628
	22.97	22.17	19.49	19.08	18.82						18.67	21.45	21.37	21.32	18.77	18.75
	0.976	0.986	0.986	0.991	0.995						0.997	0.997	0.998	0.999	0.999	1.000
	3.965	4.194	4.204	4.423	4.659						4.903	4.931	5.176	5.425	5.654	5.902
	6.00	6.25	6.50	6.75	7.00						7.25	7.50	7.75	8.00	8.25	8.50
	2.625	2.623	2.612	2.611	2.609						2.607	2.629	2.627	2.626	2.623	2.627
	18.74	18.74	26.17	26.16	26.16						26.15	18.70	18.71	18.71	18.73	18.75
	1.000	1.000	1.000	1.000	1.000						1.000	1.000	1.000	1.000	1.000	1.000
	6.151	6.401	6.708	6.958	7.208						7.458	7.651	7.901	8.151	8.401	8.653
	8.75	9.00	9.25	9.50	9.75						10.00	(Ref.) : 3				
2.625	2.622	2.619	2.610	2.607	2.601											
18.79	18.86	18.98	24.28	24.83	25.91											
1.000	1.000	1.000	1.000	1.000	1.000											
8.903	9.154	9.406	9.710	9.966	10.226											
210	3-NITRO-4-CHLOROBENZOIC ACID					C7H4ClNO4 201.57	pHL RE t z pHS	3.00 3.983 27.58 0.646 3.588	3.25 3.595 25.40 0.718 3.731	3.50 3.309 23.92 0.782 3.879						
	-1	31.3	3.357													
	3.75	4.00	4.00	4.25	4.50						4.75	4.75	5.00	5.25	5.50	5.75
	3.082	2.909	2.897	2.802	2.732						2.685	2.677	2.650	2.633	2.640	2.634
	22.86	22.14	19.39	19.05	18.81						18.67	21.45	21.36	21.31	18.77	18.75
	0.841	0.893	0.902	0.934	0.958						0.975	0.977	0.987	0.992	0.995	0.997
	4.048	4.244	4.286	4.470	4.683						4.915	4.946	5.184	5.428	5.660	5.904
	6.00	6.25	6.50	6.75	7.00						7.25	7.50	7.75	8.00	8.25	8.50
	2.629	2.625	2.613	2.612	2.609						2.607	2.629	2.627	2.626	2.623	2.627
	18.74	18.74	26.17	26.16	26.16						26.15	18.70	18.71	18.71	18.73	18.75
	0.999	0.999	1.000	1.000	1.000						1.000	1.000	1.000	1.000	1.000	1.000
	6.152	6.401	6.709	6.958	7.208						7.458	7.651	7.901	8.151	8.401	8.653
	8.75	9.00	9.25	9.50	9.75						10.00	(Ref.) : 3				
2.625	2.622	2.619	2.610	2.607	2.601											
18.79	18.86	18.98	24.28	24.83	25.91											
1.000	1.000	1.000	1.000	1.000	1.000											
8.903	9.154	9.406	9.710	9.966	10.226											



211	3-NITRO-5-CHLOROBENZOIC ACID -1	31.3	3.130	C7H4ClNO4 201.57	pHL RE t Z pHS	3.00 3.564 28.01 0.725 3.519	3.25 3.277 25.62 0.790 3.673	3.50 3.070 24.03 0.845 3.833				
		3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		2.912	2.796	2.799	2.735	2.689	2.659	2.654	2.636	2.625	2.635	2.631
		22.90	22.15	19.43	19.06	18.82	18.67	21.45	21.36	21.31	18.77	18.75
		0.893	0.931	0.935	0.958	0.974	0.985	0.986	0.992	0.995	0.997	0.998
		4.015	4.223	4.254	4.450	4.672	4.909	4.939	5.180	5.427	5.657	5.903
		6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
		2.627	2.624	2.613	2.611	2.609	2.607	2.629	2.627	2.626	2.623	2.627
		18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75
		0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
		6.151	6.401	6.709	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653
		8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
		2.625	2.622	2.619	2.610	2.607	2.601					
		18.79	18.86	18.98	24.28	24.83	25.91					
		1.000	1.000	1.000	1.000	1.000	1.000					
		8.903	9.154	9.406	9.710	9.966	10.226					
212	m-NITROBENZOIC ACID -1	32.3	3.493	C7H5NO4 167.12	pHL RE t Z pHS	3.00 4.182 26.73 0.594 3.629	3.25 3.730 24.73 0.668 3.766	3.50 3.395 23.38 0.736 3.906				
		3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		3.125	2.913	2.884	2.769	2.680	2.620	2.611	2.576	2.554	2.558	2.550
		22.40	21.72	19.04	18.73	18.51	18.36	21.05	20.97	20.93	18.46	18.45
		0.802	0.862	0.876	0.913	0.944	0.966	0.969	0.981	0.989	0.994	0.996
		4.066	4.254	4.306	4.480	4.686	4.913	4.945	5.179	5.422	5.656	5.898
		6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
		2.544	2.540	2.529	2.527	2.525	2.523	2.543	2.542	2.540	2.537	2.541
		18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42	18.44
		0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
		6.146	6.394	6.700	6.950	7.199	7.449	7.644	7.894	8.144	8.394	8.646
		8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1				
		2.539	2.537	2.534	2.526	2.523	2.518					
		18.48	18.54	18.66	23.77	24.28	25.27					
		1.000	1.000	1.000	1.000	1.000	1.000					
		8.896	9.147	9.399	9.701	9.956	10.215					
213	o-NITROBENZOIC ACID -1	33.6	2.173	C7H5NO4 167.12	pHL RE t Z pHS	3.00 2.575 27.94 0.940 3.332	3.25 2.521 25.04 0.961 3.526	3.50 2.486 23.20 0.975 3.725				
		3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		2.461	2.446	2.457	2.448	2.442	2.437	2.434	2.430	2.427	2.439	2.438
		22.00	21.26	18.78	18.39	18.14	18.00	20.59	20.51	20.46	18.10	18.08
		0.985	0.991	0.991	0.995	0.997	0.998	0.998	0.999	0.999	1.000	1.000
		3.941	4.173	4.181	4.404	4.642	4.887	4.912	5.159	5.407	5.638	5.886
		6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
		2.436	2.434	2.425	2.424	2.423	2.421	2.439	2.438	2.436	2.434	2.437
		18.07	18.07	24.97	24.96	24.96	24.95	18.03	18.04	18.04	18.06	18.07
		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
		6.136	6.385	6.689	6.938	7.188	7.438	7.636	7.886	8.136	8.386	8.637
		8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1				
		2.436	2.433	2.431	2.424	2.421	2.417					
		18.11	18.17	18.28	23.16	23.62	24.51					
		1.000	1.000	1.000	1.000	1.000	1.000					
		8.888	9.138	9.390	9.689	9.944	10.202					

214	p-NITROBENZOIC ACID -1			32.3	3.523	C7H5NO4 167.12		pH	3.00	3.25	3.50
								RE	4.257	3.788	3.441
								t	26.67	24.70	23.37
								Z	0.583	0.657	0.726
								pHS	3.640	3.775	3.913
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.158	2.936	2.903	2.783	2.690	2.626	2.617	2.580	2.556	2.559	2.551
	22.39	21.72	19.03	18.73	18.50	18.36	21.05	20.97	20.93	18.46	18.45
	0.793	0.855	0.870	0.909	0.941	0.964	0.967	0.980	0.989	0.993	0.996
	4.072	4.258	4.312	4.484	4.688	4.914	4.947	5.180	5.423	5.656	5.899
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.545	2.540	2.529	2.527	2.525	2.523	2.543	2.542	2.540	2.537	2.541
	18.44	18.44	25.62	25.62	25.61	25.61	18.40	18.40	18.41	18.42	18.44
	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.146	6.394	6.700	6.950	7.199	7.449	7.644	7.894	8.144	8.394	8.646
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3, 1				
	2.539	2.537	2.534	2.526	2.523	2.518					
	18.48	18.54	18.66	23.77	24.28	25.27					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.896	9.147	9.399	9.701	9.956	10.215					
215	m-NITROPHENOL -1			33.4	8.399	C6H5NO3 139.11		pH	3.00	3.25	3.50
								RE	□□□□□	□□□□□	□□□□□
								t	23.80	22.79	22.09
								Z	0.004	0.005	0.005
								pHS	5.973	6.060	6.138
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□	□□□□□	95.764	80.705	65.677	30.949	28.181
	21.54	21.10	18.36	18.28	18.19	18.12	20.53	20.50	20.48	18.21	18.21
	0.007	0.008	0.012	0.014	0.016	0.019	0.024	0.028	0.035	0.074	0.081
	6.221	6.314	6.474	6.530	6.602	6.690	6.777	6.853	6.945	7.291	7.335
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	24.723	20.887	10.255	9.451	8.430	7.285	4.914	4.555	4.128	3.689	3.161
	18.21	18.21	24.87	24.88	24.89	24.90	18.16	18.16	18.16	18.17	18.19
	0.093	0.110	0.227	0.247	0.278	0.322	0.486	0.525	0.581	0.653	0.767
	7.397	7.478	7.849	7.896	7.964	8.054	8.347	8.414	8.511	8.641	8.883
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3, 1				
	2.951	2.773	2.643	2.541	2.494	2.464					
	18.22	18.28	18.39	23.31	23.78	24.69					
	0.824	0.878	0.922	0.958	0.975	0.986					
	9.033	9.220	9.435	9.723	9.961	10.213					
216	o-NITROPHENOL -1			33.4	7.234	C6H5NO3 139.11		pH	3.00	3.25	3.50
								RE	□□□□□	□□□□□	□□□□□
								t	23.81	22.79	22.09
								Z	0.014	0.017	0.021
								pHS	5.391	5.479	5.558
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	89.568	72.459	51.238	45.044	38.317	31.525	26.323	22.272	18.254	9.625	8.802
	21.52	21.09	18.34	18.25	18.16	18.09	20.52	20.49	20.47	18.17	18.17
	0.025	0.031	0.045	0.051	0.060	0.073	0.087	0.103	0.126	0.244	0.267
	5.641	5.736	5.893	5.952	6.026	6.116	6.202	6.282	6.379	6.722	6.774
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	7.792	6.700	4.268	3.979	3.640	3.300	2.928	2.798	2.678	2.588	2.531
	18.17	18.16	24.95	24.96	24.97	24.99	18.10	18.10	18.11	18.12	18.13
	0.302	0.352	0.560	0.601	0.659	0.729	0.832	0.872	0.912	0.944	0.968
	6.848	6.946	7.310	7.384	7.490	7.632	7.892	8.030	8.211	8.424	8.673
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3, 1				
	2.497	2.475	2.461	2.447	2.440	2.434					
	18.17	18.23	18.34	23.25	23.72	24.62					
	0.981	0.989	0.994	0.997	0.998	0.999					
	8.904	9.147	9.395	9.693	9.946	10.205					

CHROMATOGRAPHIC DATA (1983)

217	p-NITROPHENOL -1			33.4	7.149	C6H5NO3 139.11		pHL RE	3.00 3.25	3.50	
								t	23.81	22.80	98.291
								Z	0.016	0.019	0.023
								pHS	5.349	5.436	5.515
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	81.358	65.835	46.641	41.010	34.896	28.725	24.031	20.344	16.691	8.923	8.165
	21.52	21.09	18.34	18.25	18.16	18.09	20.52	20.49	20.47	18.17	18.17
	0.028	0.034	0.049	0.056	0.066	0.080	0.096	0.113	0.138	0.263	0.288
	5.599	5.694	5.851	5.910	5.984	6.075	6.161	6.241	6.339	6.681	6.734
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	7.237	6.238	4.073	3.803	3.490	3.182	2.867	2.748	2.643	2.565	2.518
	18.16	18.16	24.96	24.97	24.98	24.99	18.10	18.10	18.11	18.12	18.13
	0.326	0.379	0.587	0.630	0.688	0.757	0.850	0.888	0.925	0.953	0.973
	6.810	6.910	7.273	7.351	7.462	7.611	7.867	8.012	8.200	8.418	8.668
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 1				
	2.489	2.470	2.458	2.445	2.439	2.434					
	18.17	18.23	18.34	23.25	23.72	24.62					
	0.984	0.991	0.995	0.997	0.999	0.999					
	8.902	9.146	9.394	9.693	9.946	10.205					
218	NITROUS ACID -1			74.6	3.220	HNO2 47.01		pHL RE	3.00 3.25	3.50	
								t	1.684	1.501	1.370
								Z	16.80	15.94	15.36
								pHS	0.625	0.702	0.770
									3.404	3.554	3.706
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.268	1.192	1.175	1.136	1.107	1.088	1.087	1.077	1.070	1.067	1.065
	14.94	14.65	13.52	13.39	13.29	13.24	14.36	14.33	14.31	13.27	13.26
	0.833	0.888	0.901	0.933	0.958	0.975	0.976	0.986	0.992	0.995	0.997
	3.878	4.076	4.138	4.324	4.539	4.772	4.782	5.019	5.263	5.516	5.760
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.063	1.063	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062
	13.26	13.26	16.26	16.26	16.27	16.27	13.24	13.24	13.25	13.25	13.25
	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.008	6.257	6.511	6.761	7.010	7.260	7.507	7.757	8.007	8.257	8.507
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 7				
	1.062	1.062	1.062	1.062	1.062	1.062					
	13.26	13.28	13.31	15.34	15.43	15.58					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.757	9.007	9.257	9.510	9.760	10.010					
219	OCTYLSULFONIC ACID -1			30.1	-2.000	C8H18O3S 194.30		pHL RE	3.00 3.25	3.50	
								t	2.722	2.722	2.722
								Z	30.42	27.04	24.92
								pHS	1.000	1.000	1.000
									3.332	3.536	3.742
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.721	2.720	2.736	2.736	2.734	2.732	2.728	2.725	2.723	2.739	2.738
	23.55	22.71	19.94	19.49	19.22	19.06	21.96	21.87	21.82	19.16	19.15
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.962	4.196	4.200	4.426	4.664	4.910	4.938	5.185	5.434	5.662	5.910
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.736	2.733	2.722	2.720	2.718	2.715	2.740	2.738	2.736	2.734	2.738
	19.14	19.13	26.87	26.87	26.86	26.85	19.09	19.10	19.11	19.12	19.14
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.159	6.409	6.720	6.969	7.219	7.469	7.659	7.909	8.159	8.409	8.662
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 12				
	2.735	2.733	2.729	2.720	2.715	2.709					
	19.18	19.26	19.40	24.94	25.56	26.77					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.912	9.163	9.415	9.722	9.979	10.240					

220	OROTIC ACID -1	33.1	2.803	C5H4N2O4 156.10	pHL RE t Z pHS	3.00 2.988 27.50 0.819 3.425	3.25 2.817 24.97 0.870 3.595	3.50 2.697 23.31 0.910 3.773			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.611	2.551	2.560	2.527	2.504	2.489	2.485	2.476	2.470	2.481	2.478
	22.17	21.44	18.89	18.52	18.28	18.14	20.76	20.68	20.64	18.23	18.22
	0.941	0.964	0.965	0.978	0.987	0.993	0.993	0.996	0.998	0.999	0.999
	3.971	4.191	4.210	4.421	4.652	4.893	4.920	5.164	5.412	5.643	5.890
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.476	2.473	2.464	2.463	2.461	2.459	2.478	2.477	2.475	2.473	2.476
	18.21	18.21	25.21	25.21	25.20	25.20	18.17	18.17	18.18	18.19	18.21
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.139	6.389	6.693	6.943	7.192	7.442	7.639	7.889	8.139	8.389	8.641
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10				
	2.474	2.472	2.469	2.462	2.459	2.455					
	18.25	18.31	18.42	23.39	23.87	24.79					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.891	9.142	9.393	9.693	9.948	10.207					
221	OXALIC ACID (S) -1 -2	42.4 77.0	1.271 4.266	C2H2O4 90.04	pHL RE t Z pHS	3.00 1.785 26.36 1.095 3.213	3.25 1.709 24.63 1.159 3.434	3.50 1.619 24.23 1.244 3.651			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.517	1.414	1.397	1.318	1.252	1.203	1.198	1.166	1.145	1.137	1.130
	24.63	25.43	23.55	24.31	25.00	25.54	27.88	28.25	28.50	26.52	26.61
	1.353	1.481	1.513	1.629	1.738	1.828	1.832	1.895	1.937	1.964	1.979
	3.871	4.094	4.146	4.348	4.564	4.794	4.808	5.040	5.280	5.535	5.775
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.126	1.123	1.116	1.115	1.114	1.112	1.121	1.121	1.120	1.120	1.121
	26.66	26.69	32.97	32.98	32.98	32.97	26.68	26.69	26.70	26.71	26.71
	1.988	1.993	1.996	1.998	1.999	1.999	2.000	2.000	2.000	2.000	2.000
	6.021	6.270	6.527	6.775	7.025	7.274	7.519	7.769	8.019	8.269	8.519
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1				
	1.120	1.120	1.119	1.115	1.114	1.113					
	26.73	26.76	26.82	31.07	31.25	31.57					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.769	9.019	9.269	9.524	9.774	10.024					
222	OXALOACETIC ACID -1 -2	28.0 56.0	2.555 4.370	C4H4O5 132.07	pHL RE t Z pHS	3.00 2.924 33.32 1.011 3.414	3.25 2.698 30.94 1.102 3.593	3.50 2.492 29.88 1.200 3.775			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.291	2.100	2.069	1.932	1.816	1.727	1.715	1.658	1.620	1.611	1.597
	29.68	30.04	27.15	27.67	28.21	28.66	31.99	32.30	32.50	29.67	29.74
	1.315	1.446	1.482	1.597	1.710	1.806	1.814	1.882	1.928	1.959	1.976
	3.969	4.176	4.231	4.417	4.624	4.848	4.872	5.099	5.337	5.585	5.822
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.588	1.582	1.569	1.566	1.564	1.561	1.581	1.580	1.579	1.577	1.580
	29.78	29.81	38.66	38.66	38.64	38.62	29.81	29.81	29.81	29.82	29.84
	1.986	1.992	1.996	1.998	1.999	1.999	2.000	2.000	2.000	2.000	2.000
	6.068	6.316	6.593	6.841	7.090	7.340	7.564	7.814	8.064	8.314	8.565
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 1				
	1.578	1.577	1.575	1.565	1.563	1.560					
	29.87	29.92	30.02	36.07	36.40	37.03					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.815	9.065	9.315	9.587	9.838	10.091					

223	PELARGONIC -1	ACID 26.7	4.955		C9H18O2 158.24			DHL RE	3.00 16.050	3.25 13.381	3.50 11.369
								t	28.51	26.84	25.71
								Z	0.182	0.219	0.259
								DHS	4.287	4.386	4.479
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	9.613	8.038	6.880	6.160	5.433	4.766	4.534	4.103	3.750	3.467	3.347
	24.85	24.22	20.79	20.61	20.45	20.32	23.54	23.49	23.45	20.47	20.46
	0.307	0.369	0.436	0.489	0.557	0.637	0.671	0.744	0.816	0.892	0.925
	4.582	4.700	4.819	4.909	5.026	5.170	5.234	5.386	5.569	5.838	6.013
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.253	3.189	3.128	3.108	3.095	3.087	3.116	3.113	3.108	3.105	3.109
	20.45	20.45	29.22	29.22	29.21	29.20	20.41	20.42	20.42	20.44	20.47
	0.953	0.972	0.986	0.992	0.995	0.997	0.998	0.999	0.999	1.000	1.000
	6.223	6.454	6.776	7.013	7.258	7.505	7.690	7.938	8.188	8.438	8.691
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 7				
	3.106	3.102	3.098	3.084	3.078	3.069					
	20.53	20.62	20.80	27.20	28.05	29.79					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.941	9.192	9.444	9.762	10.020	10.287					
224	PERCHLORIC -1	ACID (S) 69.8	-2.000		HC104 100.46			pHL RE	3.00 1.137	3.25 1.137	3.50 1.137
								t	19.06	17.12	16.01
								Z	1.000	1.000	1.000
								DHS	3.039	3.282	3.525
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137
	15.38	15.02	13.88	13.67	13.56	13.49	14.69	14.66	14.64	13.53	13.52
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.771	4.019	4.020	4.267	4.515	4.765	4.768	5.018	5.268	5.515	5.765
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137	1.137
	13.52	13.52	16.74	16.74	16.74	16.74	13.50	13.50	13.51	13.51	13.51
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.015	6.265	6.522	6.772	7.022	7.272	7.515	7.765	8.015	8.265	8.515
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 7 , 12				
	1.137	1.137	1.137	1.137	1.137	1.136					
	13.52	13.54	13.57	15.76	15.85	16.03					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.765	9.015	9.265	9.521	9.771	10.022					
225	PERIODIC ACID -1	56.5	1.550		HI04 191.91			pHL RE	3.00 1.447	3.25 1.433	3.50 1.425
								t	20.93	18.81	17.55
								Z	0.976	0.986	0.992
								DHS	3.127	3.351	3.578
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.420	1.417	1.419	1.417	1.416	1.415	1.415	1.414	1.413	1.416	1.416
	16.79	16.35	14.92	14.67	14.53	14.45	15.95	15.90	15.88	14.50	14.49
	0.995	0.997	0.997	0.998	0.999	0.999	0.999	1.000	1.000	1.000	1.000
	3.814	4.057	4.061	4.300	4.546	4.794	4.803	5.052	5.302	5.544	5.794
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.415	1.415	1.414	1.413	1.413	1.412	1.416	1.415	1.415	1.415	1.415
	14.49	14.49	18.49	18.49	18.49	18.49	14.46	14.46	14.47	14.47	14.48
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.043	6.293	6.564	6.813	7.063	7.313	7.543	7.793	8.043	8.293	8.544
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 4				
	1.415	1.415	1.414	1.413	1.413	1.412					
	14.49	14.52	14.56	17.30	17.45	17.71					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.794	9.044	9.294	9.561	9.812	10.064					

226	PERMANGANIC ACID -1	63.4	-2.000		HMn04 119.90			pHL RE t Z pHS	3.00 1.255 19.92 1.000 3.070	3.25 1.255 17.86 1.000 3.308	3.50 1.255 16.67 1.000 3.546
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.255	1.255	1.256	1.256	1.256	1.256	1.255	1.255	1.255	1.256	1.256
	15.98	15.58	14.32	14.10	13.97	13.90	15.23	15.19	15.17	13.94	13.94
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.789	4.035	4.036	4.281	4.528	4.777	4.783	5.033	5.282	5.528	5.777
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.256	1.256	1.255	1.255	1.255	1.255	1.256	1.256	1.256	1.256	1.256
	13.93	13.93	17.49	17.49	17.49	17.49	13.91	13.91	13.92	13.92	13.92
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.027	6.277	6.540	6.790	7.040	7.290	7.527	7.777	8.027	8.277	8.528
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12				
	1.256	1.256	1.255	1.255	1.255	1.254					
	13.94	13.96	13.99	16.41	16.53	16.74					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.778	9.028	9.278	9.538	9.789	10.040					
227	PEROXYSULFURIC ACID -1	44.6	-2.000		H2S208 194.13			pHL RE t Z pHS	3.00 0.958 35.24 2.000 2.987	3.25 0.958 31.74 2.000 3.242	3.50 0.958 29.79 2.000 3.496
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	0.957	0.957	0.960	0.960	0.960	0.960	0.958	0.957	0.957	0.960	0.960
	28.71	28.11	26.23	25.88	25.69	25.59	27.59	27.53	27.50	25.65	25.64
	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	3.748	3.999	3.999	4.250	4.501	4.751	4.750	5.000	5.250	5.501	5.751
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	0.959	0.959	0.956	0.955	0.955	0.954	0.960	0.960	0.960	0.959	0.960
	25.64	25.64	31.01	31.00	31.00	31.00	25.60	25.61	25.61	25.62	25.62
	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	6.001	6.251	6.499	6.749	6.999	7.249	7.502	7.752	8.001	8.251	8.501
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12				
	0.960	0.959	0.959	0.956	0.955	0.955					
	25.64	25.67	25.71	29.34	29.48	29.73					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.751	9.001	9.251	9.499	9.749	9.999					
228	PERRHENIC ACID -1	56.7	0.000		HRe04 251.20			pHL RE t Z pHS	3.00 1.409 21.02 0.999 3.108	3.25 1.409 18.82 1.000 3.339	3.50 1.409 17.53 1.000 3.571
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.408	1.408	1.410	1.410	1.410	1.409	1.409	1.409	1.408	1.410	1.410
	16.77	16.32	14.90	14.65	14.51	14.43	15.92	15.88	15.86	14.48	14.47
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.810	4.055	4.057	4.298	4.545	4.793	4.802	5.051	5.301	5.544	5.793
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.410	1.409	1.408	1.408	1.408	1.407	1.411	1.410	1.410	1.410	1.410
	14.47	14.47	18.46	18.46	18.46	18.46	14.44	14.44	14.45	14.46	14.46
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.043	6.293	6.563	6.813	7.063	7.313	7.543	7.793	8.043	8.293	8.543
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12				
	1.410	1.409	1.409	1.408	1.407	1.407					
	14.47	14.50	14.54	17.27	17.42	17.68					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.793	9.044	9.294	9.560	9.811	10.063					

229	PHENOL -1	34.4	9.998	C6H6O 94.11		pHL RE t Z pHS	3.00 24.19 0.001 6.781	3.25 23.31 0.001 6.867	3.50 22.69 0.001 6.945			
		3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		22.18	21.76	19.01	18.94	18.87	18.80	21.20	21.17	21.15	18.90	18.90
		0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.005	0.006	0.013	0.014
		7.026	7.118	7.283	7.338	7.408	7.494	7.583	7.657	7.746	8.099	8.139
		6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
		18.90	18.90	25.48	25.49	25.50	25.52	18.96	18.97	18.99	19.02	19.17
		0.016	0.019	0.044	0.047	0.053	0.063	0.121	0.132	0.149	0.174	0.271
		8.197	8.272	8.650	8.687	8.740	8.813	9.122	9.164	9.224	9.305	9.547
		8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 7				
		7.457	6.419	5.417	4.083	3.612	3.199					
		19.23	19.34	19.51	24.78	25.39	26.52					
		0.306	0.356	0.424	0.566	0.642	0.727					
		9.620	9.717	9.839	10.086	10.222	10.392					

230	PHENOXYACETIC ACID -1	27.8	3.171	C8H8O3 152.15		pHL RE t Z pHS	3.00 4.040 30.42 0.724 3.558	3.25 3.718 27.75 0.788 3.710	3.50 3.484 25.96 0.843 3.868			
		3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		3.304	3.172	3.178	3.104	3.051	3.016	4.75	5.00	5.25	5.50	5.75
		24.69	23.85	20.76	20.35	20.07	19.90	3.007	2.987	2.974	2.988	2.983
		0.891	0.929	0.934	0.957	0.974	0.984	23.05	22.96	22.90	20.02	20.00
		4.048	4.255	4.284	4.479	4.700	4.937	0.986	0.992	0.995	0.997	0.998
		6.00	6.25	6.50	6.75	7.00	7.25	4.970	5.211	5.457	5.684	5.930
		2.979	2.974	2.959	2.957	2.954	2.951	7.50	7.75	8.00	8.25	8.50
		19.99	19.98	28.40	28.39	28.38	28.37	2.981	2.979	2.977	2.974	2.978
		0.999	0.999	1.000	1.000	1.000	1.000	19.95	19.95	19.96	19.97	20.00
		6.178	6.428	6.743	6.993	7.242	7.492	1.000	1.000	1.000	1.000	1.000
		8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1				
		2.976	2.972	2.968	2.956	2.950	2.943					
		20.05	20.14	20.30	26.40	27.16	28.69					
		1.000	1.000	1.000	1.000	1.000	1.000					
		8.931	9.182	9.434	9.748	10.006	10.270					

231	PHENYLACETIC ACID -1	31.7	4.405	C8H8O2 136.15		pHL RE t Z pHS	3.00 8.332 25.69 0.298 4.011	3.25 7.058 24.22 0.353 4.119	3.50 6.099 23.21 0.410 4.222			
		3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		5.270	4.539	4.126	3.774	3.437	3.151	3.086	2.907	2.777	2.704	2.660
		22.44	21.87	19.02	18.83	18.66	18.54	21.25	21.19	21.15	18.64	18.63
		0.476	0.555	0.616	0.675	0.744	0.814	0.831	0.883	0.925	0.957	0.973
		4.337	4.472	4.580	4.691	4.834	5.010	5.061	5.248	5.462	5.715	5.927
		6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
		2.630	2.610	2.589	2.583	2.578	2.574	2.595	2.593	2.591	2.588	2.592
		18.62	18.61	25.95	25.94	25.93	25.93	18.58	18.58	18.59	18.60	18.62
		0.984	0.991	0.995	0.997	0.999	0.999	0.999	1.000	1.000	1.000	1.000
		6.160	6.403	6.713	6.957	7.205	7.455	7.649	7.898	8.148	8.398	8.650
		8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1				
		2.590	2.587	2.584	2.576	2.572	2.567					
		18.66	18.73	18.85	24.07	24.61	25.65					
		1.000	1.000	1.000	1.000	1.000	1.000					
		8.900	9.151	9.403	9.706	9.962	10.222					

232	4-PHENYLBUTYRIC ACID				C10H12O2			pHL	3.00	3.25	3.50
	-1	24.7	4.757	164.20	RE	14.144	11.861	10.133			
					t	30.42	28.50	27.20			
					Z	0.225	0.270	0.317			
					pHS	4.203	4.305	4.402			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	8.629	7.289	6.458	5.816	5.184	4.624	4.457	4.098	3.822	3.641	3.544
	26.22	25.50	21.82	21.60	21.41	21.27	24.78	24.71	24.67	21.43	21.42
	0.373	0.444	0.507	0.565	0.636	0.717	0.743	0.811	0.872	0.925	0.951
	4.510	4.636	4.743	4.843	4.971	5.129	5.189	5.358	5.556	5.811	6.005
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.474	3.428	3.377	3.364	3.354	3.346	3.384	3.380	3.376	3.372	3.378
	21.41	21.40	30.93	30.92	30.91	30.90	21.37	21.37	21.38	21.40	21.44
	0.970	0.982	0.992	0.995	0.997	0.998	0.999	0.999	1.000	1.000	1.000
	6.229	6.467	6.791	7.033	7.280	7.529	7.708	7.957	8.207	8.457	8.710
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 7				
	3.374	3.370	3.364	3.346	3.339	3.328					
	21.50	21.62	21.83	28.87	29.94	32.19					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.961	9.212	9.465	9.790	10.050	10.320					
233	2-PHENYLPROPIONIC ACID				C9H10O2			pHL	3.00	3.25	3.50
	-1	26.5	2.237	150.20	RE	3.294	3.230	3.187			
					t	32.83	29.33	27.08			
					Z	0.942	0.962	0.975			
					pHS	3.417	3.604	3.797			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	3.158	3.138	3.159	3.147	3.138	3.132	3.125	3.120	3.115	3.137	3.134
	25.57	24.63	21.44	20.95	20.63	20.45	23.77	23.67	23.60	20.58	20.56
	0.985	0.991	0.991	0.995	0.997	0.998	0.998	0.999	0.999	1.000	1.000
	4.007	4.235	4.244	4.462	4.697	4.940	4.973	5.219	5.467	5.692	5.940
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.132	3.128	3.111	3.109	3.107	3.103	3.136	3.135	3.132	3.129	3.134
	20.54	20.54	29.39	29.38	29.37	29.36	20.50	20.50	20.51	20.53	20.56
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.189	6.439	6.757	7.007	7.256	7.506	7.689	7.939	8.189	8.439	8.692
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 3				
	3.131	3.127	3.123	3.108	3.102	3.093					
	20.62	20.72	20.90	27.35	28.22	30.01					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.943	9.194	9.446	9.765	10.023	10.290					
234	3-PHENYLPROPIONIC ACID				C9H10O2			pHL	3.00	3.25	3.50
	-1	26.5	4.664	150.20	RE	12.233	10.283	8.810			
					t	28.94	27.17	25.96			
					Z	0.243	0.290	0.339			
					pHS	4.151	4.255	4.353			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	7.528	6.390	5.693	5.148	4.614	4.144	4.013	3.714	3.488	3.344	3.265
	25.05	24.38	20.95	20.74	20.56	20.42	23.69	23.62	23.58	20.57	20.55
	0.399	0.472	0.536	0.594	0.665	0.744	0.768	0.832	0.888	0.935	0.958
	4.462	4.590	4.698	4.801	4.932	5.094	5.152	5.326	5.528	5.783	5.982
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	3.209	3.173	3.133	3.121	3.113	3.107	3.139	3.136	3.133	3.129	3.134
	20.54	20.54	29.38	29.38	29.37	29.36	20.50	20.50	20.51	20.53	20.56
	0.974	0.985	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000
	6.208	6.448	6.768	7.011	7.258	7.507	7.691	7.940	8.189	8.439	8.692
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1				
	3.131	3.127	3.123	3.108	3.102	3.093					
	20.62	20.72	20.90	27.35	28.22	30.01					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.943	9.194	9.446	9.765	10.023	10.290					



235	PHOSPHORIC ACID (S)				H3P04		pHL	3.00	3.25	3.50
	-1	35.1	2.120		98.00		RE	2.449	2.401	2.369
	-2	61.5	7.470				t	27.20	24.38	22.60
	-3	71.5	12.360				Z	0.944	0.964	0.977
							pHS	3.313	3.510	3.711
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	2.348	2.333	2.344	2.336	2.328	2.322	2.319	2.312	2.302	2.300
	21.45	20.74	18.38	18.01	17.79	17.68	20.16	20.13	20.18	18.06
	0.986	0.992	0.993	0.996	0.999	1.002	1.002	1.005	1.010	1.019
	3.929	4.162	4.170	4.394	4.633	4.878	4.903	5.150	5.398	5.645
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.241	2.183	2.037	1.936	1.825	1.715	1.619	1.559	1.510	1.475
	18.74	19.42	28.10	29.47	30.97	32.47	26.37	27.12	27.72	28.15
	1.058	1.099	1.209	1.300	1.411	1.536	1.686	1.775	1.852	1.909
	6.141	6.389	6.709	6.975	7.183	7.397	7.665	7.860	8.080	8.314
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 4			
	1.443	1.434	1.429	1.419	1.415	1.412				
	28.62	28.76	28.90	34.40	34.74	35.32				
	1.969	1.983	1.991	1.997	2.002	2.007				
	8.806	9.053	9.302	9.568	9.818	10.070				
236	PHOSPHOROUS ACID				H3P03		pHL	3.00	3.25	3.50
	-1	40.0	2.000		82.00		RE	2.120	2.083	2.059
	-2	65.4	7.000				t	25.15	22.56	20.95
							Z	0.952	0.970	0.982
							pHS	3.262	3.465	3.673
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	2.043	2.032	2.040	2.032	2.026	2.018	2.016	2.006	1.990	1.972
	19.94	19.33	17.26	16.95	16.79	16.74	18.91	18.99	19.19	17.61
	0.990	0.995	0.995	0.999	1.003	1.008	1.009	1.016	1.030	1.054
	3.895	4.130	4.138	4.366	4.607	4.853	4.874	5.122	5.371	5.638
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.875	1.796	1.648	1.573	1.501	1.440	1.407	1.380	1.361	1.349
	19.17	20.44	29.42	30.83	32.18	33.32	26.94	27.39	27.70	27.90
	1.152	1.240	1.423	1.532	1.648	1.756	1.848	1.903	1.941	1.966
	6.127	6.368	6.730	6.918	7.123	7.344	7.596	7.815	8.051	8.295
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 6			
	1.339	1.336	1.334	1.327	1.324	1.322				
	28.11	28.19	28.28	33.38	33.63	34.08				
	1.989	1.994	1.996	1.998	1.999	1.999				
	8.793	9.042	9.292	9.555	9.805	10.056				
237	PHTHALIC ACID				C8H6O4		pHL	3.00	3.25	3.50
	-1	28.1	2.950		166.13		RE	3.608	3.360	3.173
	-2	52.9	5.408				t	30.89	28.17	26.48
							Z	0.807	0.869	0.924
							pHS	3.499	3.661	3.831
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	3.013	2.866	2.857	2.722	2.565	2.390	2.353	2.186	2.033	1.903
	25.50	25.19	22.20	22.54	23.34	24.50	28.03	29.31	30.55	28.70
	0.977	1.034	1.047	1.108	1.190	1.297	1.318	1.441	1.572	1.721
	4.022	4.236	4.278	4.481	4.700	4.925	4.969	5.183	5.403	5.681
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.772	1.733	1.695	1.681	1.671	1.664	1.686	1.683	1.681	1.679
	29.75	30.07	39.66	39.76	39.81	39.82	30.47	30.49	30.50	30.51
	1.874	1.923	1.958	1.975	1.986	1.992	1.995	1.997	1.998	1.999
	6.101	6.337	6.625	6.862	7.106	7.354	7.576	7.825	8.074	8.324
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1			
	1.680	1.678	1.675	1.665	1.661	1.658				
	30.57	30.62	30.73	37.18	37.56	38.27				
	2.000	2.000	2.000	2.000	2.000	2.000				
	8.825	9.075	9.325	9.600	9.852	10.105				

238	PICRIC ACID			C6H3N3O7			pHL RE t Z pHS	3.00 2.601 29.50 0.998 3.317	3.25 2.598 26.24 0.999 3.522	3.50 2.597 24.20 0.999 3.729					
	-1	31.5	0.708	229.11											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	2.596	2.594	2.609	2.608	2.606	2.604					2.601	2.598	2.596	2.611	2.609
	22.90	22.09	19.45	19.02	18.76	18.60					21.37	21.29	21.24	18.71	18.69
	0.999	1.000	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
	3.950	4.184	4.189	4.415	4.654	4.900					4.927	5.174	5.423	5.651	5.900
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	2.607	2.605	2.595	2.593	2.592	2.589					2.611	2.610	2.608	2.605	2.609
	18.68	18.68	26.06	26.05	26.05	26.04					18.64	18.64	18.65	18.66	18.68
	1.000	1.000	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
6.149	6.399	6.707	6.956	7.206	7.456	7.649	7.899	8.149	8.399	8.651					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 7									
2.607	2.605	2.602	2.593	2.589	2.584										
18.72	18.79	18.92	24.17	24.72	25.78										
1.000	1.000	1.000	1.000	1.000	1.000										
8.902	9.153	9.404	9.708	9.964	10.224										
239	PIMELIC ACID			C7H12O4			pHL RE t Z pHS	3.00 10.544 32.34 0.313 4.080	3.25 8.738 30.57 0.379 4.184	3.50 7.364 29.52 0.452 4.283					
	-1	24.0	4.509	160.17											
	-2	49.9	5.312												
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	6.166	5.095	4.412	3.882	3.359	2.892					2.764	2.458	2.215	2.031	1.947
	28.90	28.72	25.48	25.80	26.34	27.10					31.04	31.83	32.63	30.12	30.50
	0.542	0.660	0.773	0.882	1.026	1.199					1.254	1.418	1.580	1.750	1.830
	4.392	4.519	4.629	4.731	4.861	5.020					5.074	5.239	5.433	5.704	5.892
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	1.884	1.842	1.802	1.788	1.779	1.772					1.797	1.794	1.792	1.789	1.793
	30.80	31.00	41.15	41.20	41.22	41.21					31.25	31.26	31.26	31.27	31.30
1.894	1.937	1.967	1.981	1.989	1.994	1.996	1.998	1.999	1.999	2.000					
6.111	6.347	6.637	6.875	7.120	7.368	7.586	7.835	8.084	8.334	8.585					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1									
1.791	1.788	1.785	1.773	1.769	1.765										
31.34	31.40	31.51	38.41	38.85	39.66										
2.000	2.000	2.000	2.000	2.000	2.000										
8.835	9.085	9.336	9.614	9.866	10.120										
240	PROPIONIC ACID (S)			C3H6O2			pHL RE t Z pHS	3.00 11.190 22.76 0.187 4.218	3.25 9.352 21.71 0.224 4.316	3.50 7.973 20.98 0.264 4.407					
	-1	37.1	4.874	74.08											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	6.766	5.675	4.747	4.278	3.796	3.344					3.185	2.895	2.653	2.439	2.359
	20.41	19.97	17.50	17.38	17.27	17.17					19.45	19.41	19.37	17.24	17.23
	0.312	0.373	0.450	0.501	0.566	0.645					0.678	0.748	0.818	0.897	0.928
	4.507	4.624	4.760	4.846	4.959	5.100					5.164	5.312	5.491	5.775	5.945
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	2.296	2.253	2.217	2.203	2.195	2.189					2.201	2.198	2.196	2.194	2.196
	17.22	17.22	23.43	23.43	23.43	23.42					17.18	17.19	17.19	17.20	17.22
	0.954	0.972	0.986	0.992	0.995	0.997					0.998	0.999	0.999	1.000	1.000
6.153	6.383	6.688	6.922	7.166	7.413	7.618	7.866	8.116	8.366	8.617					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 1									
2.195	2.193	2.191	2.186	2.184	2.180										
17.24	17.30	17.39	21.74	22.11	22.79										
1.000	1.000	1.000	1.000	1.000	1.000										
8.867	9.118	9.369	9.661	9.914	10.171										

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241	3-PROPYLGLUTARIC ACID				C8H14O4			pHL	3.00	3.25	3.50
	-1	23.5	4.312		174.20		RE	9.319	7.837	6.702	
	-2	47.0	5.386				t	32.96	30.96	29.74	
							Z	0.365	0.437	0.513	
							pHS	4.000	4.109	4.215	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	5.710	4.824	4.360	3.883	3.416	2.998	2.890	2.599	2.363	2.181	
	29.00	28.75	25.31	25.63	26.23	27.11	31.24	32.21	33.18	30.66	
	0.606	0.724	0.812	0.918	1.053	1.212	1.257	1.410	1.564	1.729	
	4.333	4.472	4.571	4.688	4.835	5.009	5.062	5.241	5.442	5.713	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.019	1.972	1.926	1.910	1.899	1.891	1.920	1.917	1.914	1.911	
	31.50	31.75	42.61	42.68	42.70	42.70	32.08	32.09	32.10	32.11	
	1.881	1.928	1.962	1.978	1.987	1.993	1.996	1.998	1.999	2.000	
	6.123	6.359	6.652	6.890	7.135	7.383	7.597	7.846	8.095	8.345	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 7				
	1.912	1.909	1.906	1.892	1.887	1.882					
	32.18	32.25	32.38	39.77	40.27	41.20					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.846	9.096	9.347	9.629	9.882	10.136					
242	PROPYLMALONIC ACID				C6H10O4			pHL	3.00	3.25	3.50
	-1	26.0	2.971		146.14		RE	3.937	3.683	3.496	
	-2	52.0	5.845				t	32.46	29.45	27.50	
							Z	0.799	0.857	0.905	
							pHS	3.525	3.687	3.855	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	3.345	3.219	3.225	3.120	2.998	2.846	2.809	2.627	2.427	2.188	
	26.22	25.52	22.25	22.15	22.43	23.12	26.72	27.78	29.03	27.59	
	0.947	0.986	0.992	1.028	1.072	1.134	1.148	1.234	1.345	1.522	
	4.045	4.258	4.290	4.494	4.719	4.952	4.998	5.223	5.448	5.753	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	1.947	1.859	1.776	1.743	1.721	1.706	1.724	1.719	1.715	1.711	
	29.16	29.74	39.75	39.96	40.08	40.15	30.65	30.68	30.70	30.72	
	1.731	1.820	1.901	1.938	1.963	1.979	1.987	1.993	1.996	1.998	
	6.138	6.361	6.660	6.880	7.117	7.361	7.583	7.829	8.078	8.327	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 12 , 2				
	1.712	1.709	1.707	1.696	1.692	1.689					
	30.79	30.84	30.95	37.54	37.93	38.67					
	1.999	2.000	2.000	2.000	2.000	2.000					
	8.828	9.078	9.328	9.604	9.856	10.109					
243	PROPYLSULFONIC ACID				C3H8O3S			pHL	3.00	3.25	3.50
	-1	38.5	-2.000		124.15		RE	2.104	2.104	2.104	
							t	26.01	23.17	21.44	
							Z	1.000	1.000	1.000	
							pHS	3.241	3.455	3.670	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	2.104	2.103	2.111	2.111	2.110	2.109	2.107	2.106	2.104	2.113	
	20.35	19.69	17.55	17.20	16.99	16.87	19.11	19.04	19.00	16.94	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	3.897	4.135	4.139	4.370	4.612	4.858	4.879	5.127	5.376	5.610	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.111	2.110	2.104	2.103	2.102	2.101	2.113	2.112	2.111	2.110	
	16.93	16.92	22.90	22.90	22.90	22.89	16.89	16.89	16.90	16.91	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.108	6.358	6.653	6.902	7.152	7.402	7.608	7.858	8.108	8.358	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12				
	2.111	2.109	2.108	2.103	2.101	2.098					
	16.95	16.99	17.08	21.26	21.59	22.22					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.860	9.110	9.361	9.651	9.904	10.160					

244	PYRAZOLE-2,3-DICARBOXYLIC ACID	C5H5N2O4	pHL	3.00	3.25	3.50
	-1	33.8	RE	2.258	2.180	2.086
	-2	56.0	t	30.82	28.74	28.14
			Z	1.126	1.194	1.283
			pHS	3.286	3.495	3.702
	3.75	4.00	4.00	4.25	4.50	4.75
	1.980	1.871	1.866	1.782	1.712	1.660
	28.43	29.23	26.53	27.30	28.00	28.56
	1.396	1.525	1.549	1.663	1.767	1.850
	3.916	4.137	4.176	4.380	4.600	4.833
	6.00	6.25	6.50	6.75	7.00	7.25
	1.584	1.580	1.568	1.566	1.563	1.560
	29.78	29.81	38.66	38.65	38.64	38.62
	1.990	1.994	1.997	1.998	1.999	1.999
	6.066	6.315	6.591	6.840	7.090	7.339
	8.75	9.00	9.25	9.50	9.75	10.00
	1.578	1.577	1.575	1.565	1.563	1.560
	29.87	29.92	30.02	36.07	36.40	37.03
	2.000	2.000	2.000	2.000	2.000	2.000
	8.815	9.065	9.315	9.587	9.838	10.091
						(Ref.) : 10
245	PYROPHOSPHORIC ACID	H4P2O7	pHL	3.00	3.25	3.50
	-1	24.9	RE	1.604	1.568	1.546
	-2	57.9	t	42.47	38.28	35.77
	-3	75.3	Z	1.895	1.935	1.962
	-4	88.8	pHS	3.163	3.379	3.601
	1.520					
	177.98					
	3.75	4.00	4.00	4.25	4.50	4.75
	1.531	1.521	1.533	1.527	1.522	1.516
	34.26	33.38	30.38	29.92	29.70	29.66
	1.979	1.990	1.991	1.999	2.007	2.018
	3.834	4.075	4.080	4.317	4.562	4.810
	6.00	6.25	6.50	6.75	7.00	7.25
	1.441	1.405	1.350	1.319	1.292	1.272
	33.32	34.94	46.74	48.38	49.73	50.78
	2.279	2.408	2.579	2.705	2.814	2.901
	6.067	6.312	6.605	6.831	7.066	7.308
	8.75	9.00	9.25	9.50	9.75	10.00
	1.230	1.215	1.201	1.174	1.164	1.157
	47.45	49.26	50.91	60.49	61.66	62.82
	3.463	3.609	3.737	3.835	3.900	3.942
	8.793	9.040	9.288	9.544	9.792	10.041
						(Ref.) : 11 , 4
246	PYRUVIC ACID	C3H4O3	pHL	3.00	3.25	3.50
	-1	42.3	RE	2.171	2.078	2.016
		2.490	t	23.90	21.67	20.25
			Z	0.876	0.916	0.945
			pHS	3.301	3.489	3.683
	3.75	4.00	4.00	4.25	4.50	4.75
	1.973	1.946	1.951	1.935	1.925	1.918
	19.31	18.73	16.78	16.47	16.28	16.18
	0.965	0.979	0.980	0.988	0.993	0.996
	3.896	4.125	4.139	4.361	4.599	4.843
	6.00	6.25	6.50	6.75	7.00	7.25
	1.913	1.912	1.908	1.907	1.906	1.905
	16.23	16.23	21.65	21.64	21.64	21.64
	1.000	1.000	1.000	1.000	1.000	1.000
	6.091	6.341	6.629	6.879	7.129	7.379
	8.75	9.00	9.25	9.50	9.75	10.00
	1.913	1.912	1.910	1.907	1.906	1.903
	16.24	16.28	16.35	20.12	20.38	20.88
	1.000	1.000	1.000	1.000	1.000	1.000
	8.842	9.092	9.343	9.627	9.879	10.134
						(Ref.) : 11 , 7

247	SACCHARIN -1	31.3	2.432	C7H5NO3S 183.20	pHL RE t Z pHS	3.00 2.874 29.06 0.906 3.381	3.25 2.783 26.12 0.937 3.566	3.50 2.722 24.23 0.958 3.757			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.679	2.651	2.665	2.648	2.637	2.629	2.625	2.620	2.615	2.630	2.628
	22.96	22.17	19.49	19.08	18.82	18.67	21.45	21.37	21.32	18.77	18.75
	0.974	0.984	0.985	0.991	0.995	0.997	0.997	0.998	0.999	0.999	1.000
	3.966	4.194	4.205	4.424	4.659	4.903	4.931	5.176	5.425	5.654	5.902
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.625	2.623	2.612	2.611	2.609	2.607	2.629	2.627	2.626	2.623	2.627
	18.74	18.74	26.17	26.16	26.16	26.15	18.70	18.71	18.71	18.73	18.75
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.151	6.401	6.709	6.958	7.208	7.458	7.651	7.901	8.151	8.401	8.653
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.625	2.622	2.619	2.610	2.607	2.601					
	18.79	18.86	18.98	24.28	24.83	25.91					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.903	9.154	9.406	9.710	9.966	10.226					
248	SALICYLIC ACID -1	35.4	3.107	C7H6O3 138.12	pHL RE t Z pHS	3.00 3.155 25.79 0.721 3.485	3.25 2.895 23.67 0.787 3.641	3.50 2.708 22.26 0.843 3.802			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.565	2.461	2.460	2.403	2.363	2.336	2.332	2.317	2.307	2.314	2.310
	21.27	20.61	18.22	17.89	17.68	17.55	19.99	19.92	19.88	17.63	17.62
	0.891	0.930	0.935	0.958	0.974	0.985	0.986	0.992	0.995	0.997	0.998
	3.985	4.193	4.226	4.423	4.646	4.884	4.910	5.151	5.397	5.631	5.877
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.308	2.305	2.297	2.296	2.294	2.292	2.308	2.307	2.306	2.304	2.307
	17.61	17.61	24.14	24.14	24.13	24.13	17.57	17.58	17.58	17.59	17.61
	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.125	6.375	6.675	6.925	7.174	7.424	7.625	7.875	8.125	8.375	8.626
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1				
	2.305	2.304	2.301	2.296	2.293	2.289					
	17.64	17.70	17.79	22.39	22.80	23.57					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.877	9.127	9.379	9.674	9.928	10.186					
249	SEBACIC ACID -1 -2	20.7 44.9	4.530 5.380	C10H18O4 202.25	pHL RE t Z pHS	3.00 12.173 36.02 0.315 4.111	3.25 10.107 33.79 0.380 4.214	3.50 8.526 32.42 0.452 4.314			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	7.143	5.907	5.173	4.540	3.919	3.364	3.206	2.839	2.545	2.318	2.212
	31.57	31.21	27.33	27.58	28.05	28.74	33.18	33.91	34.65	31.68	32.04
	0.541	0.657	0.759	0.867	1.008	1.177	1.232	1.394	1.556	1.731	1.815
	4.425	4.553	4.655	4.760	4.892	5.051	5.107	5.272	5.464	5.733	5.918
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.132	2.079	2.026	2.008	1.996	1.987	2.020	2.016	2.013	2.009	2.014
	32.33	32.52	43.90	43.94	43.95	43.93	32.77	32.78	32.79	32.79	32.83
	1.883	1.930	1.963	1.978	1.988	1.993	1.996	1.998	1.999	1.999	2.000
	6.135	6.368	6.665	6.902	7.147	7.395	7.606	7.854	8.104	8.354	8.605
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 12				
	2.011	2.008	2.004	1.988	1.983	1.978					
	32.87	32.95	33.09	40.88	41.43	42.48					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.855	9.105	9.356	9.642	9.894	10.149					

250	SELENIC ACID			H <sub>2</sub> SeO <sub>4</sub>			pHL	3.00	3.25	3.50
	-1	41.0	0.000	144.97	RE	1.100	1.085	1.077		
	-2	80.5	2.050		t	36.21	32.80	30.84		
					Z	1.933	1.961	1.977		
					pHS	3.038	3.278	3.521		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	1.072	1.068	1.073	1.071	1.070	1.069	1.067	1.066	1.065	1.069
	29.72	29.09	26.99	26.53	26.42	26.31	28.54	28.48	28.45	26.39
	1.987	1.993	1.993	1.996	1.998	1.999	1.999	1.999	2.000	2.000
	3.768	4.016	4.017	4.265	4.514	4.763	4.765	5.015	5.264	5.513
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.069	1.068	1.063	1.053	1.052	1.061	1.069	1.069	1.069	1.068
	26.38	26.38	32.36	32.35	32.35	32.34	26.34	26.34	26.35	26.36
	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	6.013	6.263	6.516	6.766	7.016	7.266	7.513	7.763	8.013	8.263
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 4			
	1.069	1.068	1.068	1.064	1.063	1.062				
	26.38	26.41	26.46	30.51	30.68	30.97				
	2.000	2.000	2.000	2.000	2.000	2.000				
	8.763	9.013	9.263	9.516	9.766	10.016				
251	SELENIOUS ACID			H <sub>2</sub> SeO <sub>3</sub>			pHL	3.00	3.25	3.50
	-1	41.2	2.620	128.97	RE	2.301	2.184	2.105		
	-2	60.5	8.450		t	24.12	21.93	20.52		
					Z	0.848	0.895	0.929		
					pHS	3.331	3.512	3.701		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	2.049	2.012	2.018	1.997	1.983	1.974	1.973	1.967	1.963	1.968
	19.58	18.99	16.98	16.67	16.48	16.37	18.45	18.40	18.37	16.47
	0.955	0.973	0.974	0.984	0.991	0.995	0.995	0.998	0.999	1.001
	3.908	4.135	4.152	4.370	4.605	4.849	4.869	5.114	5.363	5.599
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.963	1.958	1.946	1.935	1.915	1.885	1.847	1.790	1.723	1.653
	16.52	16.59	22.41	22.72	23.24	24.07	19.31	20.67	22.28	23.96
	1.006	1.010	1.020	1.035	1.061	1.104	1.180	1.272	1.390	1.523
	6.097	6.347	6.648	6.897	7.145	7.393	7.660	7.889	8.117	8.348
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 11			
	1.541	1.506	1.482	1.460	1.449	1.442				
	26.78	27.66	28.30	34.15	34.66	35.32				
	1.772	1.854	1.912	1.950	1.971	1.984				
	8.832	9.068	9.311	9.577	9.824	10.075				
252	SELENOCYANIC ACID			HSeCN			pHL	3.00	3.25	3.50
	-1	67.1	0.000	105.99	RE	1.185	1.184	1.184		
					t	19.40	17.41	16.27		
					Z	0.999	1.000	1.000		
					pHS	3.052	3.293	3.534		
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	1.184	1.184	1.185	1.184	1.184	1.184	1.184	1.184	1.184	1.185
	15.62	15.24	14.05	13.84	13.72	13.66	14.91	14.87	14.85	13.69
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.778	4.026	4.027	4.272	4.521	4.770	4.774	5.024	5.274	5.520
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.184	1.184	1.184	1.184	1.184	1.184	1.185	1.185	1.184	1.184
	13.69	13.69	17.04	17.04	17.04	17.04	13.66	13.66	13.67	13.67
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.020	6.270	6.529	6.779	7.029	7.279	7.520	7.770	8.020	8.270
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 12			
	1.184	1.184	1.184	1.184	1.184	1.183				
	13.69	13.71	13.74	16.02	16.12	16.31				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.770	9.020	9.270	9.528	9.778	10.029				

253	SORBIC ACID				C6H8O2			pHL	3.00	3.25	3.50
	-1	33.4	4.770				RE	11.103	9.298	7.942	
							t	24.46	23.21	22.35	
							Z	0.210	0.252	0.296	
							pHS	4.177	4.277	4.372	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	6.758	5.696	4.888	4.413	3.933	3.494	3.356	3.074	2.847	2.671	
	21.68	21.18	18.45	18.30	18.16	18.06	20.61	20.56	20.52	18.15	
	0.349	0.415	0.489	0.543	0.611	0.690	0.719	0.787	0.852	0.915	
	4.475	4.596	4.722	4.815	4.935	5.085	5.146	5.304	5.493	5.766	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.538	2.499	2.465	2.454	2.446	2.440	2.457	2.455	2.453	2.450	
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	
	0.964	0.979	0.990	0.994	0.997	0.998	0.999	0.999	1.000	1.000	
	6.165	6.400	6.709	6.947	7.193	7.441	7.639	7.888	8.137	8.387	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 3				
	2.451	2.449	2.446	2.439	2.436	2.432					
	18.16	18.22	18.33	23.25	23.72	24.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.889	9.140	9.391	9.691	9.945	10.204					
254	SUBERIC ACID				C8H14O4			pHL	3.00	3.25	3.50
	-1	22.5	4.517				RE	11.348	9.435	7.974	
	-2	47.2	5.403				t	33.79	31.79	30.58	
							Z	0.311	0.375	0.446	
							pHS	4.095	4.199	4.299	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	6.697	5.554	4.857	4.276	3.703	3.188	3.042	2.698	2.420	2.199	
	29.83	29.55	26.00	26.27	26.78	27.54	31.72	32.54	33.37	30.75	
	0.533	0.646	0.749	0.854	0.991	1.158	1.213	1.373	1.537	1.718	
	4.409	4.538	4.643	4.748	4.880	5.041	5.096	5.262	5.454	5.726	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.022	1.970	1.920	1.903	1.891	1.883	1.911	1.908	1.905	1.902	
	31.50	31.72	42.52	42.58	42.60	42.60	32.02	32.03	32.04	32.05	
	1.875	1.925	1.960	1.977	1.987	1.992	1.995	1.997	1.999	1.999	
	6.126	6.359	6.654	6.890	7.134	7.382	7.596	7.845	8.094	8.344	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 10 , 7				
	1.903	1.900	1.897	1.883	1.879	1.874					
	32.12	32.19	32.32	39.67	40.16	41.09					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.845	9.096	9.346	9.628	9.880	10.135					
255	SUCCINIC ACID (S)				C4H6O4			pHL	3.00	3.25	3.50
	-1	33.0	4.207				RE	6.629	5.619	4.856	
	-2	60.9	5.638				t	25.62	24.26	23.41	
							Z	0.363	0.430	0.500	
							pHS	3.914	4.025	4.133	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	4.193	3.604	3.280	2.972	2.667	2.385	2.316	2.104	1.916	1.728	
	22.86	22.62	20.16	20.38	20.86	21.69	24.71	25.82	27.11	26.16	
	0.583	0.683	0.761	0.846	0.954	1.082	1.118	1.251	1.399	1.600	
	4.254	4.397	4.504	4.625	4.779	4.962	5.015	5.201	5.407	5.704	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	1.571	1.520	1.474	1.455	1.443	1.435	1.448	1.445	1.443	1.441	
	27.60	28.09	36.49	36.67	36.78	36.84	28.82	28.84	28.86	28.88	
	1.797	1.871	1.929	1.957	1.975	1.986	1.992	1.995	1.997	1.998	
	6.095	6.323	6.608	6.837	7.078	7.324	7.555	7.803	8.052	8.301	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 10 , 1				
	1.441	1.440	1.439	1.431	1.429	1.426					
	28.92	28.97	29.05	34.56	34.84	35.36					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.802	9.052	9.302	9.569	9.820	10.071					

256	SULFAMIC ACID (S)											
	-1	50.3	-2.000		HSO3NH2			pHL	3.00	3.25	3.50	
					97.09			RE	1.594	1.594	1.594	
								t	22.36	19.98	18.57	
								Z	1.000	1.000	1.000	
								pHS	3.147	3.373	3.600	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	1.594	1.593	1.597	1.597	1.596	1.596	1.595	1.595	1.594	1.598	1.597	
	17.72	17.22	15.61	15.33	15.17	15.08	16.77	16.72	16.69	15.13	15.12	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	3.835	4.078	4.080	4.318	4.563	4.811	4.824	5.073	5.322	5.562	5.812	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	1.597	1.596	1.594	1.594	1.593	1.592	1.598	1.597	1.597	1.596	1.597	
	15.12	15.12	19.64	19.64	19.64	19.64	15.09	15.09	15.10	15.11	15.11	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.061	6.311	6.589	6.838	7.088	7.338	7.561	7.811	8.061	8.311	8.562	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 12					
	1.597	1.596	1.595	1.594	1.593	1.591						
	15.13	15.16	15.21	18.32	18.50	18.84						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.812	9.062	9.313	9.586	9.837	10.090						
257	SULFANILIC ACID											
	-1	33.7	3.227		C6H7NO3S			pHL	3.00	3.25	3.50	
					173.19			RE	3.489	3.175	2.946	
								t	26.44	24.32	22.89	
								Z	0.685	0.754	0.814	
								pHS	3.532	3.681	3.835	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	2.768	2.636	2.630	2.558	2.505	2.471	2.465	2.445	2.432	2.439	2.434	
	21.88	21.20	18.67	18.34	18.11	17.98	20.55	20.47	20.43	18.07	18.05	
	0.868	0.913	0.920	0.947	0.967	0.981	0.982	0.990	0.994	0.996	0.998	
	4.011	4.214	4.252	4.443	4.661	4.896	4.925	5.164	5.410	5.642	5.888	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.431	2.428	2.419	2.417	2.415	2.413	2.431	2.430	2.429	2.427	2.430	
	18.05	18.04	24.92	24.91	24.91	24.90	18.01	18.01	18.02	18.03	18.05	
	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.136	6.385	6.688	6.938	7.188	7.437	7.635	7.885	8.135	8.385	8.637	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1					
	2.428	2.426	2.423	2.417	2.413	2.409						
	18.08	18.14	18.25	23.11	23.57	24.45						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.887	9.138	9.389	9.688	9.943	10.201						
258	m-SULFANILIC ACID											
	-1	33.4	3.740		C6H7NO3S			pHL	3.00	3.25	3.50	
					173.19			RE	4.748	4.158	3.717	
								t	25.68	23.95	22.77	
								Z	0.503	0.576	0.646	
								pHS	3.717	3.844	3.971	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75	
	3.350	3.049	2.973	2.815	2.684	2.589	2.576	2.521	2.486	2.480	2.468	
	21.90	21.28	18.65	18.39	18.19	18.06	20.65	20.57	20.53	18.15	18.14	
	0.719	0.792	0.818	0.866	0.909	0.943	0.947	0.968	0.981	0.989	0.994	
	4.116	4.288	4.358	4.513	4.703	4.920	4.955	5.180	5.419	5.656	5.894	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	
	2.460	2.454	2.443	2.441	2.439	2.436	2.454	2.453	2.452	2.450	2.453	
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	18.13	
	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.140	6.388	6.692	6.941	7.190	7.440	7.637	7.887	8.137	8.387	8.639	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3					
	2.451	2.449	2.446	2.439	2.436	2.432						
	18.16	18.22	18.33	23.25	23.72	24.62						
	1.000	1.000	1.000	1.000	1.000	1.000						
	8.889	9.140	9.391	9.691	9.945	10.204						



259	o-SULFANILIC ACID				C6H7NO3S			pHL	3.00	3.25	3.50
	-1	33.4	7.488		173.19		RE	□□□□□	□□□□□	□□□□□	
							t	23.80	22.79	22.08	
							Z	0.011	0.013	0.016	
							pHS	5.518	5.605	5.684	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	□□□□□	96.602	67.988	59.744	50.784	41.726	34.677	29.299	23.954	12.186	11.128
	21.52	21.08	18.34	18.25	18.17	18.09	20.52	20.49	20.47	18.18	18.18
	0.019	0.023	0.033	0.038	0.045	0.055	0.066	0.078	0.096	0.191	0.210
	5.767	5.861	6.019	6.077	6.151	6.240	6.326	6.405	6.501	6.844	6.893
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	9.820	8.393	4.981	4.626	4.196	3.748	3.156	2.989	2.822	2.685	2.586
	18.17	18.17	24.93	24.94	24.95	24.97	18.11	18.11	18.11	18.12	18.14
	0.238	0.280	0.477	0.515	0.569	0.639	0.769	0.814	0.863	0.909	0.946
	6.963	7.055	7.422	7.487	7.580	7.706	7.976	8.092	8.252	8.448	8.696
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.531	2.495	2.473	2.453	2.443	2.436					
	18.17	18.23	18.34	23.26	23.72	24.63					
	0.967	0.981	0.989	0.994	0.997	0.998					
	8.915	9.152	9.397	9.695	9.947	10.205					
260	SULFURIC ACID				H2SO4			pHL	3.00	3.25	3.50
	-1	52.0	-3.000		98.07		RE	1.052	1.044	1.039	
	-2	82.9	1.921				t	35.73	32.38	30.47	
							Z	1.948	1.970	1.983	
							pHS	3.020	3.266	3.513	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.036	1.034	1.038	1.037	1.036	1.036	1.034	1.033	1.032	1.036	1.036
	29.39	28.78	26.74	26.39	26.20	26.09	28.25	28.20	28.16	26.17	26.16
	1.990	1.994	1.994	1.997	1.998	1.999	1.999	1.999	2.000	2.000	2.000
	3.761	4.011	4.011	4.260	4.510	4.760	4.760	5.010	5.260	5.510	5.760
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.036	1.035	1.031	1.031	1.030	1.029	1.036	1.036	1.036	1.036	1.036
	26.16	26.16	31.95	31.94	31.94	31.93	26.11	26.12	26.13	26.13	26.14
	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	6.010	6.260	6.511	6.761	7.011	7.261	7.510	7.760	8.010	8.260	8.510
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 1 , 4				
	1.036	1.035	1.035	1.031	1.030	1.030					
	26.15	26.19	26.24	30.16	30.31	30.59					
	2.000	2.000	2.000	2.000	2.000	1.999					
	8.760	9.010	9.260	9.511	9.761	10.011					
261	SULFUROUS ACID				H2SO3			pHL	3.00	3.25	3.50
	-1	51.8	1.780		82.07		RE	1.603	1.580	1.566	
	-2	74.6	6.991				t	21.82	19.62	18.29	
							Z	0.964	0.978	0.987	
							pHS	3.165	3.382	3.603	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	1.557	1.551	1.555	1.551	1.548	1.544	1.544	1.539	1.531	1.523	1.505
	17.49	17.01	15.45	15.20	15.08	15.05	16.71	16.78	16.96	15.77	16.32
	0.993	0.997	0.997	1.000	1.003	1.008	1.008	1.015	1.028	1.050	1.086
	3.834	4.075	4.080	4.316	4.561	4.808	4.821	5.070	5.319	5.583	5.831
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.476	1.435	1.360	1.313	1.267	1.227	1.206	1.188	1.176	1.168	1.165
	17.18	18.41	25.97	27.63	29.24	30.63	25.49	26.05	26.42	26.65	26.79
	1.143	1.228	1.394	1.511	1.634	1.747	1.843	1.901	1.940	1.965	1.980
	6.078	6.324	6.664	6.866	7.082	7.309	7.566	7.791	8.031	8.276	8.526
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2 , 7				
	1.162	1.160	1.159	1.153	1.152	1.151					
	26.89	26.97	27.05	31.46	31.66	32.01					
	1.989	1.994	1.996	1.998	1.999	1.999					
	8.774	9.023	9.273	9.529	9.779	10.030					

262	TAPS -1	25.0	8.300	C7H17NO6S 243.27	pHL RE t Z pHS	3.00 3.25 3.50	3.00 3.25 3.50	3.00 3.25 3.50			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	25.63	25.01	21.36	21.23	21.11	21.01	24.24	24.21	24.18	21.16	21.16
	0.008	0.010	0.014	0.016	0.019	0.023	0.028	0.033	0.041	0.084	0.093
	6.200	6.296	6.438	6.499	6.575	6.666	6.748	6.829	6.925	7.252	7.301
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	28.756	24.110	12.350	11.273	9.964	8.562	6.149	5.678	5.143	4.622	4.077
	21.16	21.17	30.19	30.21	30.24	30.29	21.21	21.22	21.24	21.27	21.34
	0.108	0.129	0.255	0.280	0.317	0.371	0.527	0.572	0.634	0.708	0.809
	7.369	7.455	7.816	7.870	7.947	8.049	8.320	8.398	8.509	8.654	8.894
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 9				
	3.833	3.640	3.507	3.394	3.348	3.314	N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid				
	21.40	21.51	21.72	28.69	29.72	31.90					
	0.862	0.909	0.944	0.972	0.984	0.991					
	9.063	9.266	9.493	9.806	10.056	10.321					
263	TARTARIC ACID (S) -1	32.6	3.036	C4H6O6 150.09	pHL RE t Z pHS	3.00 3.25 3.50	3.00 3.25 3.50	3.00 3.25 3.50			
	-2	60.7	4.366								
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.114	1.921	1.883	1.758	1.653	1.575	1.565	1.515	1.482	1.474	1.462
	27.67	28.23	25.73	26.37	27.03	27.59	30.62	31.01	31.28	28.72	28.81
	1.257	1.407	1.452	1.577	1.698	1.800	1.808	1.878	1.927	1.958	1.975
	3.964	4.163	4.223	4.404	4.610	4.833	4.855	5.083	5.321	5.571	5.809
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.455	1.450	1.439	1.437	1.434	1.432	1.449	1.448	1.447	1.445	1.447
	28.87	28.90	37.01	37.01	37.01	36.99	28.90	28.90	28.91	28.92	28.93
	1.986	1.992	1.996	1.998	1.999	1.999	2.000	2.000	2.000	2.000	2.000
	6.055	6.303	6.575	6.823	7.072	7.322	7.552	7.802	8.051	8.301	8.552
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1				
	1.446	1.445	1.444	1.436	1.434	1.431					
	28.96	29.01	29.09	34.62	34.90	35.42					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.802	9.052	9.302	9.570	9.820	10.072					
264	TARTRONIC ACID -1	36.0	2.366	C3H4O5 120.06	pHL RE t Z pHS	3.00 3.25 3.50	3.00 3.25 3.50	3.00 3.25 3.50			
	-2	68.3	4.735								
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.021	1.886	1.858	1.733	1.611	1.505	1.491	1.414	1.358	1.326	1.306
	24.01	24.55	22.42	23.31	24.32	25.27	27.97	28.71	29.25	27.25	27.45
	1.148	1.246	1.277	1.386	1.511	1.638	1.653	1.758	1.843	1.908	1.943
	3.929	4.152	4.212	4.411	4.621	4.840	4.868	5.085	5.315	5.576	5.802
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	1.292	1.283	1.272	1.268	1.266	1.264	1.276	1.275	1.274	1.273	1.274
	27.58	27.66	34.83	34.85	34.86	34.86	27.72	27.73	27.73	27.74	27.75
	1.967	1.981	1.989	1.994	1.997	1.998	1.999	1.999	2.000	2.000	2.000
	6.042	6.288	6.554	6.800	7.048	7.298	7.535	7.785	8.034	8.284	8.535
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1				
	1.274	1.273	1.272	1.266	1.264	1.263					
	27.77	27.81	27.88	32.73	32.96	33.37					
	2.000	2.000	2.000	2.000	2.000	2.000					
	8.785	9.035	9.285	9.546	9.796	10.047					

265	TEREPHTHALIC ACID				C8H6O4		pHL	3.00	3.25	3.50
	-1	28.0	3.540		166.13		RE	4.141	3.556	3.106
	-2	53.0	4.460				t	32.28	30.69	29.94
							Z	0.716	0.843	0.976
							pHS	3.642	3.772	3.904
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	2.722	2.399	2.314	2.130	1.975	1.860	1.844	1.773	1.726	1.715
	29.78	30.14	27.23	27.77	28.40	28.98	32.49	32.92	33.21	30.27
	1.129	1.302	1.369	1.505	1.643	1.762	1.774	1.856	1.913	1.950
	4.054	4.229	4.299	4.458	4.649	4.864	4.892	5.113	5.349	5.596
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.688	1.681	1.665	1.662	1.659	1.656	1.680	1.678	1.677	1.675
	30.43	30.46	39.86	39.86	39.85	39.83	30.48	30.48	30.48	30.49
	1.983	1.990	1.995	1.997	1.998	1.999	1.999	2.000	2.000	2.000
	6.077	6.325	6.605	6.854	7.103	7.352	7.574	7.823	8.073	8.323
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 7			
	1.676	1.674	1.672	1.661	1.658	1.654				
	30.54	30.60	30.70	37.15	37.52	38.23				
	2.000	2.000	2.000	2.000	2.000	2.000				
	8.824	9.074	9.325	9.600	9.851	10.104				
266	THIOACETIC ACID				C2H4OS		pHL	3.00	3.25	3.50
	-1	43.7	3.337		76.11		RE	2.925	2.617	2.393
							t	22.16	20.66	19.65
							Z	0.623	0.697	0.764
							pHS	3.521	3.665	3.812
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	2.216	2.080	2.059	1.987	1.933	1.897	1.893	1.873	1.860	1.859
	18.91	18.41	16.46	16.22	16.06	15.95	17.91	17.86	17.82	16.02
	0.827	0.882	0.895	0.928	0.955	0.973	0.974	0.985	0.991	0.995
	3.979	4.174	4.227	4.408	4.620	4.851	4.874	5.110	5.354	5.595
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.852	1.849	1.845	1.844	1.843	1.842	1.850	1.850	1.849	1.848
	16.00	16.00	21.24	21.24	21.24	21.24	15.97	15.97	15.98	15.99
	0.998	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.086	6.335	6.622	6.871	7.121	7.371	7.585	7.835	8.085	8.335
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3			
	1.849	1.848	1.846	1.844	1.842	1.840				
	16.02	16.05	16.12	19.75	20.00	20.46				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.836	9.086	9.337	9.619	9.871	10.125				
267	THIOCYANIC ACID				HSCN		pHL	3.00	3.25	3.50
	-1	68.5	0.848		59.09		RE	1.166	1.163	1.161
							t	19.19	17.25	16.13
							Z	0.994	0.997	0.998
							pHS	3.050	3.290	3.531
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	1.160	1.159	1.160	1.160	1.160	1.159	1.159	1.159	1.159	1.160
	15.49	15.12	13.96	13.75	13.63	13.57	14.79	14.76	14.74	13.61
	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.775	4.023	4.024	4.270	4.518	4.767	4.771	5.021	5.271	5.518
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	1.159	1.159	1.159	1.159	1.159	1.159	1.160	1.160	1.160	1.159
	13.60	13.60	16.88	16.88	16.88	16.88	13.58	13.58	13.58	13.59
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.017	6.267	6.525	6.775	7.025	7.275	7.517	7.767	8.017	8.267
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 2			
	1.159	1.159	1.159	1.159	1.159	1.158				
	13.60	13.62	13.65	15.88	15.98	16.16				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.767	9.017	9.268	9.524	9.775	10.025				

268	THIOCYANOACETIC ACID			C3H3NOS			pHL RE t Z pHS	3.00 2.311 24.38 0.858 3.328	3.25 2.200 22.14 0.902 3.511	3.50 2.126 20.70 0.934 3.701					
	-1	40.6	2.585	101.10											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	2.074	2.039	2.045	2.025	2.013	2.004					2.003	1.997	1.994	2.000	1.999
	19.74	19.14	17.09	16.78	16.58	16.47					18.59	18.52	18.49	16.54	16.53
	0.958	0.975	0.976	0.985	0.991	0.995					0.995	0.997	0.998	0.999	1.000
	3.910	4.137	4.153	4.372	4.607	4.851					4.872	5.117	5.366	5.601	5.849
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	1.997	1.996	1.991	1.990	1.989	1.988					1.999	1.998	1.997	1.996	1.998
	16.52	16.52	22.18	22.18	22.17	22.17					16.49	16.49	16.50	16.51	16.52
	1.000	1.000	1.000	1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
6.098	6.348	6.639	6.889	7.139	7.389	7.598	7.848	8.098	8.348	8.599					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3									
1.997	1.995	1.994	1.990	1.988	1.986										
16.54	16.58	16.66	20.60	20.89	21.44										
1.000	1.000	1.000	1.000	1.000	1.000										
8.850	9.100	9.351	9.637	9.890	10.145										
269	THIOGLYCOLIC ACID			C2H4O2S			pHL RE t Z pHS	3.00 3.687 23.62 0.560 3.619	3.25 3.260 22.04 0.635 3.753	3.50 2.945 20.97 0.704 3.888					
	-1	38.6	3.545	92.11											
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	2.687	2.483	2.441	2.332	2.247	2.188					2.181	2.147	2.125	2.123	2.115
	20.18	19.63	17.39	17.14	16.96	16.85					19.07	19.01	18.97	16.92	16.91
	0.773	0.839	0.858	0.899	0.934	0.960					0.962	0.977	0.987	0.992	0.996
	4.044	4.226	4.289	4.456	4.657	4.881					4.910	5.141	5.383	5.622	5.863
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	2.110	2.107	2.100	2.099	2.097	2.095					2.108	2.107	2.106	2.104	2.106
	16.91	16.90	22.87	22.86	22.86	22.86					16.87	16.87	16.88	16.89	16.90
	0.998	0.999	0.999	1.000	1.000	1.000					1.000	1.000	1.000	1.000	1.000
6.110	6.358	6.653	6.902	7.152	7.402	7.608	7.858	8.108	8.358	8.609					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 3									
2.105	2.104	2.102	2.098	2.095	2.093										
16.93	16.97	17.06	21.22	21.56	22.18										
1.000	1.000	1.000	1.000	1.000	1.000										
8.859	9.110	9.361	9.650	9.903	10.159										
270	THIOSULFURIC ACID			H2S2O3			pHL RE t Z pHS	3.00 0.986 35.11 1.965 3.001	3.25 0.979 31.74 1.980 3.250	3.50 0.974 29.85 1.989 3.501					
	-1	44.0	0.600	114.13											
	-2	88.1	1.720												
	3.75	4.00	4.00	4.25	4.50	4.75					4.75	5.00	5.25	5.50	5.75
	0.972	0.970	0.973	0.972	0.972	0.971					0.969	0.969	0.968	0.971	0.971
	28.79	28.20	26.29	25.95	25.77	25.66					27.69	27.63	27.60	25.73	25.72
	1.994	1.996	1.996	1.998	1.999	1.999					1.999	2.000	2.000	2.000	2.000
	3.751	4.002	4.002	4.252	4.503	4.753					4.752	5.002	5.252	5.503	5.753
	6.00	6.25	6.50	6.75	7.00	7.25					7.50	7.75	8.00	8.25	8.50
	0.971	0.971	0.967	0.967	0.966	0.965					0.971	0.971	0.971	0.971	0.971
	25.72	25.72	31.15	31.14	31.14	31.14					25.68	25.68	25.69	25.70	25.70
2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000					
6.003	6.253	6.501	6.751	7.001	7.251	7.503	7.753	8.003	8.253	8.503					
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) 2, 4									
0.971	0.971	0.971	0.967	0.967	0.966										
25.72	25.75	25.79	29.46	29.60	29.86										
2.000	2.000	2.000	2.000	2.000	2.000										
8.753	9.003	9.253	9.501	9.751	10.001										

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271	p-TOLUENESULFONIC -1	31.1	ACID -2.000		C7H8O3S 172.20		pHL RE t Z pHS	3.00 2.630 29.77 1.000 3.320	3.25 2.630 26.46 1.000 3.525	3.50 2.630 24.40 1.000 3.732
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	2.630	2.628	2.643	2.643	2.641	2.639	2.636	2.633	2.631	2.646
	23.08	22.26	19.58	19.15	18.88	18.73	21.53	21.45	21.40	18.83
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.953	4.188	4.192	4.418	4.657	4.902	4.930	5.177	5.426	5.654
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.643	2.640	2.630	2.629	2.627	2.624	2.646	2.645	2.643	2.641
	18.81	18.80	26.28	26.28	26.27	26.26	18.77	18.77	18.78	18.79
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.152	6.402	6.710	6.960	7.210	7.459	7.652	7.902	8.152	8.402
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 12			
	2.643	2.640	2.637	2.628	2.624	2.619				
	18.85	18.92	19.05	24.39	24.95	26.05				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.905	9.156	9.407	9.712	9.968	10.229				
272	m-TOLUIC ACID -1	29.1	4.272		C8H8O2 136.15		pHL RE t Z pHS	3.00 8.002 27.47 0.340 3.962	3.25 6.822 25.75 0.400 4.072	3.50 5.932 24.58 0.462 4.180
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	5.166	4.499	4.188	3.854	3.545	3.292	3.240	3.085	2.977	2.928
	23.69	23.05	19.96	19.73	19.53	19.40	22.38	22.30	22.26	19.52
	0.532	0.614	0.666	0.725	0.791	0.854	0.867	0.911	0.945	0.968
	4.301	4.445	4.540	4.661	4.816	5.003	5.051	5.250	5.472	5.716
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.866	2.850	2.828	2.823	2.819	2.815	2.840	2.839	2.836	2.833
	19.49	19.48	27.51	27.50	27.49	27.48	19.45	19.45	19.46	19.47
	0.989	0.994	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000
	6.176	6.421	6.734	6.981	7.229	7.479	7.668	7.917	8.167	8.417
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1			
	2.835	2.832	2.828	2.817	2.813	2.806				
	19.54	19.63	19.77	25.54	26.21	27.55				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.920	9.171	9.423	9.733	9.990	10.253				
273	o-TOLUIC ACID -1	29.1	3.908		C8H8O2 136.15		pHL RE t Z pHS	3.00 6.018 28.03 0.456 3.806	3.25 5.231 26.09 0.527 3.927	3.50 4.638 24.78 0.596 4.048
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	4.138	3.719	3.598	3.378	3.190	3.051	3.027	2.945	2.891	2.880
	23.80	23.10	20.06	19.77	19.55	19.40	22.39	22.31	22.26	19.52
	0.670	0.748	0.780	0.832	0.883	0.925	0.931	0.957	0.975	0.985
	4.186	4.350	4.423	4.569	4.750	4.960	5.000	5.221	5.456	5.691
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.849	2.840	2.823	2.820	2.817	2.814	2.840	2.838	2.836	2.833
	19.49	19.48	27.51	27.50	27.49	27.48	19.45	19.45	19.46	19.47
	0.995	0.997	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
	6.171	6.419	6.732	6.980	7.229	7.479	7.667	7.917	8.167	8.417
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 1			
	2.835	2.832	2.828	2.817	2.813	2.806				
	19.54	19.63	19.77	25.54	26.21	27.55				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.920	9.171	9.423	9.733	9.990	10.253				

274	p-TOLUIC ACID -1	29.1	4.373	C8H8O2 136.15	pHL RE t Z pHS	3.00 8.717 27.34 0.312 4.007	3.25 7.400 25.67 0.368 4.115	3.50 6.406 24.53 0.427 4.220			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	5.547	4.794	4.406	4.035	3.685	3.392	3.327	3.145	3.015	2.949	2.904
	23.67	23.03	19.93	19.71	19.53	19.40	22.37	22.30	22.26	19.52	19.50
	0.495	0.575	0.631	0.691	0.759	0.827	0.843	0.893	0.933	0.961	0.976
	4.337	4.476	4.576	4.692	4.839	5.019	5.070	5.262	5.479	5.727	5.943
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.874	2.855	2.830	2.824	2.819	2.815	2.841	2.839	2.836	2.833	2.838
	19.49	19.48	27.50	27.50	27.49	27.48	19.45	19.45	19.46	19.47	19.50
	0.986	0.992	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000
	6.178	6.422	6.736	6.981	7.230	7.479	7.668	7.917	8.167	8.417	8.670
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 11 , 1				
	2.835	2.832	2.828	2.817	2.813	2.806					
	19.54	19.63	19.77	25.54	26.21	27.55					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.920	9.171	9.423	9.733	9.990	10.253					
275	TRIBROMOACETIC ACID -1	36.5	1.000	C2HBr3O2 296.74	pHL RE t Z pHS	3.00 2.235 26.84 0.995 3.264	3.25 2.231 23.91 0.997 3.474	3.50 2.228 22.11 0.998 3.686			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.226	2.225	2.234	2.233	2.232	2.230	2.228	2.227	2.225	2.235	2.234
	20.97	20.28	18.02	17.64	17.42	17.29	19.66	19.59	19.55	17.37	17.36
	0.999	0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.911	4.148	4.152	4.382	4.623	4.869	4.892	5.139	5.388	5.620	5.869
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.233	2.231	2.224	2.224	2.222	2.221	2.235	2.234	2.233	2.231	2.234
	17.35	17.35	23.68	23.67	23.67	23.66	17.32	17.32	17.33	17.34	17.35
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.119	6.368	6.666	6.916	7.166	7.416	7.619	7.869	8.119	8.369	8.620
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 3 , 12				
	2.233	2.231	2.229	2.223	2.221	2.218					
	17.38	17.43	17.52	21.96	22.34	23.06					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.870	9.121	9.372	9.665	9.919	10.176					
276	TRICHLOROACETIC ACID -1	37.9	0.635	C2HC13O2 163.39	pHL RE t Z pHS	3.00 2.144 26.25 0.998 3.249	3.25 2.142 23.39 0.999 3.461	3.50 2.141 21.63 0.999 3.675			
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
	2.139	2.138	2.147	2.146	2.145	2.144	2.142	2.141	2.139	2.148	2.147
	20.53	19.86	17.69	17.33	17.11	16.99	19.27	19.20	19.16	17.07	17.06
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	3.901	4.139	4.143	4.373	4.615	4.862	4.883	5.131	5.380	5.613	5.862
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
	2.146	2.145	2.139	2.138	2.137	2.135	2.148	2.148	2.146	2.145	2.147
	17.05	17.05	23.13	23.12	23.12	23.12	17.01	17.02	17.02	17.03	17.04
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.111	6.361	6.657	6.906	7.156	7.406	7.611	7.861	8.111	8.361	8.613
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) . 2 , 7				
	2.146	2.144	2.143	2.138	2.136	2.133					
	17.07	17.12	17.21	21.46	21.81	22.46					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.863	9.113	9.364	9.655	9.909	10.165					

277	TRICHLOROACRYLIC ACID					C3HC1302		pHL	3.00	3.25	3.50
	-1	33.4	0.000		175.40		RE	2.442	2.441	2.441	
							t	28.41	25.28	23.33	
							Z	1.000	1.000	1.000	
							pHS	3.294	3.501	3.711	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	2.440	2.439	2.452	2.451	2.450	2.448	2.445	2.443	2.441	2.453	
	22.09	21.34	18.85	18.44	18.20	18.06	20.66	20.58	20.53	18.15	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	3.934	4.169	4.173	4.401	4.641	4.887	4.913	5.160	5.409	5.887	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.451	2.449	2.441	2.439	2.438	2.436	2.454	2.453	2.451	2.450	
	18.13	18.12	25.06	25.06	25.05	25.05	18.09	18.09	18.10	18.11	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.137	6.387	6.690	6.940	7.190	7.440	7.637	7.887	8.137	8.387	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 12				
	2.451	2.449	2.446	2.439	2.436	2.432					
	18.16	18.22	18.33	23.25	23.72	24.62					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.889	9.140	9.391	9.691	9.945	10.204					
278	TRICHLOROLACTIC ACID					C3H3C1303		pHL	3.00	3.25	3.50
	-1	34.2	2.347		193.41		RE	2.595	2.519	2.469	
							t	27.48	24.70	22.93	
							Z	0.915	0.943	0.963	
							pHS	3.343	3.533	3.728	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	2.434	2.411	2.422	2.409	2.400	2.394	2.391	2.387	2.383	2.393	
	21.77	21.04	18.60	18.22	17.98	17.84	20.38	20.30	20.26	17.94	
	0.977	0.986	0.987	0.992	0.995	0.997	0.997	0.999	0.999	1.000	
	3.941	4.171	4.181	4.402	4.639	4.884	4.909	5.155	5.403	5.883	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	2.391	2.389	2.381	2.380	2.378	2.376	2.394	2.393	2.391	2.389	
	17.91	17.91	24.68	24.68	24.67	24.67	17.87	17.88	17.88	17.90	
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
	6.132	6.382	6.684	6.934	7.183	7.433	7.632	7.882	8.132	8.382	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
	2.391	2.389	2.386	2.380	2.377	2.372					
	17.95	18.00	18.11	22.89	23.33	24.18					
	1.000	1.000	1.000	1.000	1.000	1.000					
	8.884	9.135	9.386	9.684	9.938	10.197					
279	TRIMETAPHOSPHORIC ACID					H3P309		pHL	3.00	3.25	3.50
	-1	28.9	-2.000		239.94		RE	1.088	1.081	1.075	
	-2	57.8	-1.000				t	54.45	49.14	46.13	
	-3	87.6	2.050				Z	2.946	2.969	2.982	
							pHS	3.029	3.275	3.522	
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	
	1.072	1.069	1.080	1.078	1.077	1.076	1.070	1.068	1.067	1.078	
	44.42	43.45	40.37	39.82	39.50	39.33	42.66	42.56	42.49	39.47	
	2.990	2.994	2.994	2.997	2.998	2.999	2.999	2.999	3.000	3.000	
	3.771	4.020	4.021	4.269	4.519	4.769	4.770	5.020	5.270	5.519	
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	
	1.076	1.075	1.064	1.063	1.061	1.059	1.078	1.078	1.077	1.076	
	39.44	39.43	48.34	48.32	48.29	48.26	39.39	39.39	39.39	39.40	
	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	
	6.019	6.269	6.522	6.772	7.021	7.271	7.519	7.769	8.019	8.269	
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 4				
	1.077	1.075	1.074	1.064	1.062	1.061					
	39.44	39.48	39.55	45.57	45.80	46.24					
	3.000	3.000	3.000	3.000	3.000	3.000					
	8.769	9.019	9.269	9.521	9.771	10.021					

280	TRIMETHYLACETIC ACID (S)			C5H10O2			pHL	3.00	3.25	3.50
-1	31.8		5.037	102.13			RE	15.015	12.497	10.607
							t	25.11	23.83	22.96
							Z	0.163	0.196	0.231
							pHS	4.309	4.406	4.497
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	8.954	7.461	6.196	5.549	4.883	4.256	4.014	3.610	3.265	2.947
	22.28	21.76	18.88	18.74	18.61	18.51	21.18	21.13	21.10	18.61
	0.275	0.331	0.403	0.451	0.515	0.593	0.630	0.702	0.779	0.872
	4.596	4.710	4.841	4.926	5.034	5.170	5.237	5.378	5.550	5.834
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.738	2.672	2.615	2.595	2.581	2.573	2.590	2.587	2.584	2.581
	18.59	18.59	25.89	25.88	25.88	25.87	18.55	18.55	18.56	18.57
	0.940	0.963	0.982	0.989	0.994	0.997	0.998	0.999	0.999	1.000
	6.195	6.420	6.735	6.966	7.209	7.456	7.651	7.899	8.148	8.398
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3 , 7			
	2.582	2.579	2.576	2.568	2.564	2.559				
	18.63	18.70	18.82	24.02	24.55	25.59				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.900	9.151	9.402	9.705	9.961	10.221				
281	TRIMETHYLACRYLIC ACID			C6H10O2			pHL	3.00	3.25	3.50
-1	30.3		4.420	114.14			RE	8.773	7.431	6.419
							t	26.51	24.94	23.88
							Z	0.297	0.351	0.408
							pHS	4.023	4.131	4.234
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	5.543	4.772	4.344	3.971	3.614	3.310	3.240	3.051	2.914	2.838
	23.06	22.47	19.48	19.28	19.11	18.98	21.83	21.76	21.72	19.09
	0.474	0.553	0.613	0.673	0.742	0.812	0.829	0.882	0.925	0.956
	4.349	4.484	4.590	4.701	4.845	5.020	5.072	5.259	5.473	5.725
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	2.759	2.738	2.714	2.708	2.703	2.699	2.722	2.720	2.718	2.715
	19.07	19.06	26.75	26.74	26.74	26.73	19.03	19.03	19.04	19.05
	0.984	0.991	0.995	0.997	0.999	0.999	0.999	1.000	1.000	1.000
	6.170	6.413	6.725	6.970	7.218	7.467	7.659	7.908	8.158	8.408
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3			
	2.717	2.714	2.710	2.701	2.696	2.691				
	19.12	19.19	19.32	24.83	25.43	26.62				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.911	9.162	9.413	9.720	9.976	10.238				
282	2,4,6-TRIMETHYLBENZOIC ACID			C10H12O2			pHL	3.00	3.25	3.50
-1	24.7		3.437	164.20			RE	5.123	4.630	4.265
							t	32.68	29.90	28.02
							Z	0.643	0.713	0.777
							pHS	3.664	3.804	3.948
	3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50
	3.971	3.746	3.739	3.613	3.518	3.455	3.440	3.403	3.380	3.395
	26.67	25.75	22.23	21.80	21.50	21.31	24.88	24.77	24.70	21.45
	0.837	0.889	0.898	0.930	0.956	0.974	0.976	0.986	0.992	0.995
	4.115	4.309	4.348	4.529	4.740	4.971	5.009	5.246	5.490	5.716
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25
	3.380	3.374	3.351	3.349	3.345	3.342	3.381	3.379	3.375	3.371
	21.41	21.40	30.93	30.92	30.91	30.90	21.37	21.37	21.38	21.40
	0.998	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	6.208	6.457	6.779	7.028	7.278	7.528	7.707	7.957	8.207	8.457
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 7			
	3.374	3.370	3.364	3.346	3.339	3.328				
	21.50	21.62	21.83	28.87	29.94	32.19				
	1.000	1.000	1.000	1.000	1.000	1.000				
	8.961	9.212	9.465	9.790	10.050	10.320				



283	TRIMETILPYRUVIC ACID				C6H10O3	pHL	3.00	3.25	3.50					
	-1	29.2	1.469	130.14			RE	2.842	2.830	2.823				
							t	30.97	27.56	25.41				
							Z	0.988	0.992	0.995				
							DHS	3.351	3.551	3.754				
		3.75	4.00	4.00			4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		2.817	2.813	2.830			2.828	2.825	2.822	2.817	2.814	2.811	2.829	2.828
		24.01	23.15	20.28			19.82	19.54	19.37	22.37	22.27	22.22	19.48	19.46
		0.997	0.998	0.998			0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000
		3.972	4.205	4.210			4.434	4.672	4.917	4.946	5.193	5.442	5.669	5.917
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50			
	2.825	2.822	2.809	2.808	2.806	2.803	2.829	2.828	2.826	2.823	2.827			
	19.45	19.45	27.44	27.43	27.43	27.42	19.41	19.42	19.42	19.44	19.46			
	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
	6.166	6.416	6.728	6.978	7.228	7.477	7.666	7.916	8.166	8.416	8.669			
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3							
	2.825	2.822	2.818	2.807	2.803	2.796								
	19.51	19.59	19.73	25.48	26.15	27.47								
	1.000	1.000	1.000	1.000	1.000	1.000								
	8.919	9.170	9.422	9.732	9.989	10.252								
284	VALERIC ACID				C5H10O2	pHL	3.00	3.25	3.50					
	-1	31.6	4.842	102.13			RE	12.475	10.427	8.888				
							t	25.35	24.02	23.10				
							Z	0.198	0.237	0.279				
							DHS	4.216	4.316	4.410				
		3.75	4.00	4.00			4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		7.545	6.338	5.413			4.873	4.326	3.823	3.657	3.333	3.070	2.860	2.771
		22.39	21.86	18.97			18.82	18.68	18.57	21.27	21.22	21.18	18.67	18.66
		0.330	0.395	0.467			0.520	0.588	0.667	0.698	0.768	0.836	0.906	0.936
		4.512	4.632	4.757			4.848	4.966	5.112	5.175	5.329	5.516	5.788	5.967
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50			
	2.703	2.657	2.616	2.602	2.593	2.586	2.606	2.603	2.600	2.598	2.601			
	18.65	18.65	26.00	25.99	25.99	25.98	18.61	18.61	18.62	18.63	18.65			
	0.960	0.976	0.988	0.993	0.996	0.998	0.999	0.999	1.000	1.000	1.000			
	6.180	6.413	6.726	6.963	7.209	7.456	7.651	7.900	8.149	8.399	8.651			
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 10 , 1							
	2.599	2.596	2.593	2.585	2.581	2.576								
	18.69	18.76	18.88	24.12	24.66	25.72								
	1.000	1.000	1.000	1.000	1.000	1.000								
	8.901	9.152	9.404	9.707	9.963	10.223								
285	VANILLIC ACID				C8H8O4	pHL	3.00	3.25	3.50					
	-1	27.1	4.523	168.15			RE	10.559	8.918	7.677				
							t	28.62	26.85	25.64				
							Z	0.276	0.328	0.382				
							DHS	4.084	4.189	4.291				
		3.75	4.00	4.00			4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
		6.601	5.651	5.121			4.658	4.213	3.830	3.734	3.494	3.317	3.218	3.156
		24.73	24.06	20.72			20.49	20.31	20.17	23.37	23.30	23.25	20.31	20.29
		0.446	0.523	0.583			0.643	0.714	0.788	0.808	0.865	0.913	0.949	0.968
		4.404	4.537	4.640			4.749	4.889	5.060	5.114	5.298	5.508	5.758	5.967
	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50			
	3.114	3.087	3.054	3.046	3.039	3.034	3.064	3.062	3.059	3.055	3.060			
	20.28	20.27	28.92	28.91	28.90	28.89	20.24	20.24	20.25	20.27	20.30			
	0.981	0.989	0.995	0.997	0.998	0.999	0.999	1.000	1.000	1.000	1.000			
	6.198	6.440	6.759	7.003	7.251	7.500	7.685	7.934	8.184	8.434	8.687			
	8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 11 , 2							
	3.057	3.054	3.049	3.036	3.030	3.022								
	20.35	20.44	20.61	26.90	27.72	29.38								
	1.000	1.000	1.000	1.000	1.000	1.000								
	8.937	9.188	9.441	9.757	10.015	10.281								

286	VINYLA -1	CETIC ACID 38.6	4.342	C4H6O2 86.09	pH RE t Z pHs	3.00 6.648 22.58 0.306 3.962	3.25 5.639 21.44 0.361 4.070	3.50 4.882 20.66 0.418 4.173		
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
4.227	3.649	3.297	3.026	2.765	2.542	2.494	2.355	2.254	2.193	2.159
20.04	19.58	17.24	17.09	16.95	16.85	19.06	19.01	18.97	16.92	16.91
0.485	0.563	0.629	0.686	0.753	0.821	0.837	0.888	0.928	0.959	0.975
4.287	4.423	4.538	4.648	4.791	4.967	5.016	5.202	5.416	5.675	5.887
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.136	2.121	2.107	2.103	2.099	2.097	2.108	2.107	2.106	2.104	2.107
16.91	16.90	22.87	22.86	22.86	22.86	16.87	16.87	16.88	16.89	16.90
0.985	0.991	0.996	0.998	0.999	0.999	1.000	1.000	1.000	1.000	1.000
6.120	6.363	6.660	6.905	7.153	7.402	7.609	7.858	8.108	8.358	8.609
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3, 7				
2.105	2.104	2.102	2.098	2.095	2.093					
16.93	16.97	17.06	21.22	21.56	22.18					
1.000	1.000	1.000	1.000	1.000	1.000					
8.859	9.110	9.361	9.650	9.903	10.159					
287	VINYLG -1	GLYCOLIC ACID 35.4	3.319	C4H6O3 102.09	pH RE t Z pHs	3.00 3.499 25.41 0.648 3.552	3.25 3.155 23.48 0.720 3.696	3.50 2.903 22.18 0.784 3.845		
3.75	4.00	4.00	4.25	4.50	4.75	4.75	5.00	5.25	5.50	5.75
2.704	2.554	2.540	2.458	2.397	2.357	2.352	2.328	2.314	2.318	2.313
21.24	20.61	18.18	17.88	17.68	17.55	19.99	19.92	19.88	17.63	17.62
0.844	0.895	0.904	0.935	0.960	0.976	0.977	0.987	0.992	0.996	0.997
4.016	4.213	4.257	4.442	4.656	4.889	4.917	5.154	5.399	5.634	5.878
6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50
2.309	2.306	2.298	2.296	2.295	2.293	2.308	2.307	2.306	2.304	2.307
17.61	17.61	24.14	24.14	24.13	24.13	17.57	17.58	17.58	17.59	17.61
0.999	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
6.126	6.375	6.675	6.925	7.174	7.424	7.625	7.875	8.125	8.375	8.626
8.75	9.00	9.25	9.50	9.75	10.00	(Ref.) : 3				
2.305	2.304	2.301	2.296	2.293	2.289					
17.64	17.70	17.79	22.39	22.80	23.57					
1.000	1.000	1.000	1.000	1.000	1.000					
8.877	9.127	9.379	9.674	9.928	10.186					

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- 12 Assumed values