List of Physico-chemical Symbols adopted by the Chemical Society. [See J.C.S., 1921, 119, 502—512.]

1. Mathematical Symbols.

·	Usual symbol,	Alternative symbol.		
Base of natural (Napierian) logarithms	e e	.,o.,		
Diameter	d			
Radius	r			
Ratio of circumference to diameter	Ξ.			
Summation	Σ			
Variation	$\frac{\delta}{d}$			
Partial differential	ა : გ :			
1 ditial directification	•			
2. Universal Constants.				
Acceleration due to gravity	. g			
Mechanical equivalent of heat	$\mid \hat{J} \mid$			
Avogadro's constant [number of molecules in 1 gram-mole-				
cule (mole)]	l Ÿ			
Gas constant per mole	R			
Faraday's constant (number of coulombs per gram-equiv-	F			
alent of an ion)	e l			
Charge on an electron	,			
3. General Physics and Chemistry.				
Length	1 1			
Height	h			
Mass	m			
Time	t			
Volume Density (mass per unit volume)	$\begin{vmatrix} v, V \\ d \end{vmatrix}$	D		
Pressure	p, P	1)		
Concentration	$\begin{bmatrix} c, c \end{bmatrix}$			
Mole fraction	x			
Critical constants: pressure, volume, temperature (centi-				
grade), temperature (absolute), density	p_e, v_e, t_e, T_e, d_e			
Reduced quantities: pressure, volume, temperature, density	p_n, v_r, t_n, T_r, d_r			
van der Waals' constants	a, b			
Fluidity Viscosity	φ			
Surface tension	$\begin{bmatrix} & & \eta & & \vdots \\ & & \gamma & & \end{bmatrix}$	σ		
Diffusion coefficient	. Á l	J		
Atomic weight	A			
Molecular weight	M			
Velocity coefficient of reaction	k			
Equilibrium constant	$K_{\bullet}(K_{\bullet}, K_{\bullet})$			
van 't Hoff coefficient	. a			
Degree of dissociation (electrolytic, thermal, etc.)	, &			
4. Heat and Thermodynamics.				
Temperature (centigrade)	, t	0		
Temperature (absolute)	T			
Critical temperature	t_c, T_{\bullet}			
Reduced temperature	i_c, T_r	l		

4. Heat and Thermodynamics—(continued).

Critical solution temperature	Usual symbol.	Alternative symbol.
Quantity of heat	Q S	
Entropy Specific heat		
Specific heat at constant pressure	c	
Specific heat at constant volume		
Ratio of specific heats, $c_1:c_2$	` ,	
Ratio of specific heats, c, : c, Molecular heat	\dot{c}	
Molecular heat at constant pressure	C,	
Molecular heat at constant volume	<i>C</i> •	
Latent heat per gram Latent heat per mole	<i>l</i> .	
Maximum work (diminution of free energy)	.4	
· · · · · · · · · · · · · · · · · · ·		
5. Optics.		
Wave-length of light		1
Refractive index	"	22
Specific refractive power (Gladstone and Dale)		
Specific refractive power (Lorentz and Lorenz)	r_L , $(r_L)_{\lambda}$	
Molecular refractive power	$\left\{\begin{array}{cc} R_{a}, R_{L}, \\ R_{a}, R_{L}, \end{array}\right.$	
Angle of optical rotation	$\begin{cases} [R_{o,\lambda}, [R_{L}]_{\lambda}^{L}] \end{cases}$	
Specific rotatory power	ر م	
Molecular rotatory power		
Specific magnetic rotation	[ω]	
Molecular magnetic rotation	$M[\omega]$	
6. Electricity and Magnetism		
Quantity of electricity	\widetilde{I}	
Current intensity		
Resistance	R	11.
Electromotive force Electrode potential, or discharge potential of an ion	$\frac{E}{E}$	ε
Electrode potential referred to the normal hydrogen or	1-	•
normal calomel electrode respectively, the potential of		
which is taken as zero	$E_{m{h}}$, $E_{m{s}}$	ε, ε
Normal potential, i.e., the electrode potential referred to the		
normal hydrogen or normal calomel electrode respec-		
tively, when the solution is molecular-normal in respect of all participating substances and ions of variable con-		
centration	$_{\circ}E_{+,-\circ}E_{-}$	₀ ε ₃ , ₀ ε
Dielectric constant	${}_{0}E_{k}, {}_{0}E_{\epsilon}$	U-x, U-
Conductivity (specific conductance)	K	
Equivalent conductivity	Λ	
Equivalent conductivity at different dilutions—volumes in		
litres containing 1 gram-equivalent Equivalent conductivity of cation and of anion	$A_{10}, A_{r}, A_{\sigma}$ A_{s}, A_{σ}	
Equivalent conductivity of specified ions	$\Lambda_{\mathbf{K}}^{\mathbf{i}}, \Lambda_{\mathbf{C}_{\mathbf{I}}}^{\mathbf{d}}$	
Molecular conductivity	μ	
Velocity of cation and of anion in cm./sec. when the poten-	·	
tial gradient is 1 volt per cm.	$U_{\mathbf{k}},\;U$	
Transport number of cation and of anion	n_k, n_{\bullet}	
Magnetic permeability Magnetic susceptibility	μ	
manghetic susceptionity	^	•

List of Symbols, Arranged Alphabetically.

Symbol.	Name of quantity.
A	Atomic weight; maximum work.
ā	Van der Waals' constant.
b C	Van der Waals' constant.
c	Concentration; molecular heat. Concentration; specific heat.
C_p , C_q	Molecular heat at constant pressure, and at constant volume.
c_{p}^{p}, c_{v}	Specific heat at constant pressure, and at constant volume.
-D	Alternative symbol for density.
a ð	Diameter; total differential; density. Critical density.
$\overset{\omega_s}{d}$	Reduced density.
c_p^r , c_v D d d d E	Electromotive force; electrode potential.
e	Base of Napierian logarithms; charge on an electron.
E_{h} , E_{o}	Electrode potential referred to the normal hydrogen or the normal calomel
$_{0}E_{h}$, $_{0}E_{\mathfrak{o}}$	electrode, respectively, the potential of which is taken as zero. Normal potential, that is, the electrode potential referred to the normal
OZA, OZe	hydrogen or the normal calomel electrode respectively, when the solution
	is molecular normal in respect of all participating substances and ions
75	of variable concentration.
F	Faraday's constant (number of coulombs per gram-equivalent of an ion),
h .	Acceleration due to gravity. Height.
\ddot{I}	Current.
i	Van 't Hoff coefficient.
g . h I i J	Mechanical equivalent of heat.
K_{c}, K	Equilibrium constant, when molar concentrations and partial pressures
	respectively are employed.
<u>k</u>	Velocity coefficient of reaction.
$rac{L}{l}$	Latent heat per mole.
M	Length; latent heat per gram. Molecular weight.
$M^{[lpha]}$	Molecular rotatory power.
$M[\check{m{\omega}}]$	Molecular magnetic rotatory power.
m	Mass.
N	Avogadro's constant (Loschmidt's number) or number of molecules in l
n	gram-molecule, Refractive index.
n_k , n_a	Transport number of cation and of anion.
$\overset{n_{\bullet}}{P}$	Refractive index (alternative symbol).
P	Pressure.
р р., р.	Pressure. Critical pressure: reduced pressure.
ρ., ρ. Q Ř	Quantity of heat; quantity of electricity.
	Gas constant per mole; electrical resistance.
R_{g}, R_{L}	Molecular refractive power, according to Gladstone and Dale, and to Lorentz
r	and Lorenz respectively. Radius.
r_{G}, r_{L}	Specific refractive power according to Gladstone and Dale, and to Lorentz
	and Lorenz respectively.
$\frac{S}{T}$	Entropy.
T T_{o} T_{r} T_{cs} t	Absolute temperature. Critical temperature (on the absolute scale).
$\bar{T}_{m{\epsilon}}^{m{\epsilon}}$	Reduced temperature (absolute).
$T_{_{m{cs}}}$	Critical solution temperature (absolute).
t i	Time; temperature (centigrade).
t _c ,	Critical temperature (centigrade). Critical solution temperature (centigrade).
t.	Reduced temperature (centigrade).
U_{k} , U_{a}	Velocity of cation and of anion in cm./sec. when the potential gradient is
	1 volt per cm.
$egin{array}{c} V \ v \end{array}$	Volume. Volume.
v_o, v_r	Critical volume: reduced volume.
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List of Symbols, Arranged Alphabetically—(continued).

Symbol.	Name of quantity.
\overline{W}	Electrical resistance (alternative symbol).
\boldsymbol{x}	Mole fraction.
α	Degree of dissociation (electrolytic, thermal, etc.); angle of optical rotation.
[α]	Specific rotatory power.
Ϋ́	Surface tension; ratio of specific heats.
$egin{array}{c} \gamma \ \Delta \ \delta \ \delta \end{array}$	Diffusion coefficient.
0	Variation. Partial differential.
ο ε	Electrode potential (alternative symbol); dielectric constant.
ε _λ , ε	Electrode potential referred to the normal hydrogen or the normal calomel
c _h , c	electrode respectively, the potential of which is taken as zero (alternative symbols).
₀ ε _λ , ₀ ε	Normal potential, that is, the electrode potential referred to the normal hydrogen or the normal calomel electrode respectively, when the solution is molecular-normal in respect of all participating substances and ions of variable concentration (alternative symbols).
$\stackrel{oldsymbol{\eta}}{ heta}$	Viscosity.
	Temperature (centigrade), (alternative symbol).
K	Specific conductance (conductivity); magnetic susceptibility.
$\Lambda_{10}, \ \Lambda_{v}, \ \Lambda \infty$ $\Lambda_{k}, \ \Lambda_{a}$ λ	Equivalent conductivity. Equivalent conductivity at different dilutions (volumes in litres containing 1 gram equivalent).
Λ_{ν} , Λ_{σ}	Equivalent conductivity of cation and of anion.
λ	Wave-length of light.
μ	Molecular conductivity; magnetic permeability.
π	Ratio of circumference to diameter.
Σ	Summation.
ϕ_{a}	Surface tension (alternative symbol).
φ	Fluidity. Specific magnetic rotation.
[ω]	Specific magnetic rotation.