

*First Report of the Committee on Atoms of the International Union
of Chemistry*

Chairman : F. W. ASTON.

N. BOHR, O. HAHN, W. D. HARKINS, G. URBAIN.

THE Committee issues this first Table of Isotopes in the hope that it will be of service to those working on nuclear disintegration. It is not proposed to quote the numerous authorities on which this Table is based, but it will be revised at frequent intervals and supplemented with a Table of Isotopic Weights later. Authors of papers bearing on the subject are requested to send copies to each of the members of the Committee :

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International Table of Stable Isotopes for 1936.

(Numbers in italics are rough or indirect measurements, in parentheses doubtful. a, b, c, d are orders of abundance.)

Symbol.	Atomic Number (Z).	Mass Number (M).	Relative Abundance (%).	Symbol.	Atomic Number (Z).	Mass Number (M).	Relative Abundance (%).
H	1	1	99.98	A	18	36	0.33
D		2	0.02			38	0.05
T		3	(7 × 10 ⁻⁸)			40	99.62
He	2	4	100	K	19	39	93.4
Li	3	6	7.9			40	0.01
		7	92.1	Ca	20	41	6.6
Be	4	(8)	(0.05)			42	0.77
		9	99.95			43	0.17
B	5	10	20			44	2.30
		11	80	Sc	21	45	100
C	6	12	99.3	Ti	22	46	8.5
		13	0.7			47	7.8
N	7	14	99.62			48	71.3
		15	0.38			49	5.5
O	8	16	99.76	V	23	51	100
		17	0.04	Cr	24	50	4.9
		18	0.20			52	81.6
F	9	19	100			53	10.4
Ne	10	20	90.00			54	3.1
		21	0.27	Mn	25	55	100
		22	9.73	Fe	26	54	6.5
Na	11	23	100			56	90.2
Mg	12	24	77.4			57	2.8
		25	11.5	Co	27	58	0.5
		26	11.1			59	100
Al	13	27	100	Ni	28	58	68.1
Si	14	28	89.6			60	27.2
		29	6.2			(61)	(1.7)
		30	4.2			62	3.8
P	15	31	100			64	0.9
S	16	32	96	Cu	29	63	68
		33	1			65	32
		34	3	Zn	30	64	50.4
						66	27.2
Cl	17	35	76			67	4.2
		37	24			68	17.8
						70	0.4

Symbol.	Atomic Number (Z).	Mass Number (M).	Relative Abundance (%).	Symbol.	Atomic Number (Z).	Mass Number (M).	Relative Abundance (%).	
Ga	31	69	61.5	In	49	113	4.5	
		71	38.5			115	95.5	
Ge	32	70	21.2	Sn	50	112	1.1	
		72	27.3			114	0.8	
		73	7.9			115	0.4	
		74	37.1			116	15.5	
		76	6.5			117	9.1	
As	33	75	100			118	22.5	
Se	34	74	0.9			119	9.8	
		76	9.5			120	28.5	
		77	8.3			122	5.5	
		78	24.0			124	6.8	
		80	48.0		Sb	51	121	56
		82	9.3				123	44
Br	35	79	50	Te	52	122	2.9	
		81	50			123	1.6	
Kr	36	78	0.42			124	4.5	
		80	2.45			125	6.0	
		82	11.79			126	19.0	
		83	11.79			128	32.8	
		84	56.85			130	33.1	
		86	16.70		I	53	127	100
Rb	37	85	72	Xe	54	124	0.08	
		87	28			126	0.08	
Sr	38	86	10.0			128	2.30	
		87	6.6			129	27.13	
		88	83.4			130	4.18	
Y	39	89	100			131	20.67	
Zr	40	90	48			132	26.45	
		91	11.5			134	10.31	
		92	22			136	8.79	
		94	17		Cs	55	133	100
		96	1.5					
		Nb [Cb]	41	93	100	Ba	56	135
								136
Mo	42	92	14.2			137	11.1	
		94	10.0			138	74.1	
		95	15.5		La	57	139	100
		96	17.8					
		97	9.6		Ce	58	140	89
		98	23.0					
				100	9.8	Pr	59	141
Ru	44	96	5	Nd	60	142	36	
		(98)				143	11	
		99	12			144	30	
		100	14			145	5	
		101	22			146	18	
		102	30		Sm	62	144	3
		104	17					
		Rh	45	103	100			148
Pd	46	102	c			149	15	
		104	a			150	5	
		105	a			152	26	
		106	a			154	20	
		108	a		Eu	63	151	50.6
		110	b					153
Ag	47	107	52.5	Gd	64	155	21	
		109	47.5			156	23	
Cd	48	106	1.5			157	17	
		108	1.0			158	23	
		110	15.6			160	16	
		111	15.2		Tb	65	159	100
		112	22.0					
		113	14.7		Dy	66	161	22
		114	24.0				162	25
		116	6.0				163	25
							164	28

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Symbol.	Atomic Number (Z).	Mass Number (M).	Relative Abundance (%).	Symbol.	Atomic Number (Z).	Mass Number (M).	Relative Abundance (%).				
Ho	67	165	100	Ir	77	191	33				
Er	68	166	36	Pt	78	192	d				
		167	24			194	b				
		168	30			195	a				
		170	10			196	a				
Tm	69	169	100			198	c				
Yb	70	171	9	Au	79	197	100				
		172	24			Hg	80	196	0-10		
		173	17					(197)	(0-01)		
		174	38					198	9-89		
		176	12					199	16-45		
		200	23-77								
Lu [Cp]	71	175	100			201	13-67				
Hf	72	176	5			202	29-27				
		177	19			203	0-006				
		178	28	Tl	81	204	6-85				
		179	18			203	29-4				
		180	30			205	70-6				
Ta	73	181	100	Pb	82	(203)					
W	74	182	22-6			204	1-50				
		183	17-3			(205)					
		184	30-2			206	28-3				
		186	29-9			207	20-1				
Re	75	185	38-2			208	50-1				
		187	61-8	(209)							
				(210)							
Os	76	186	1-0	Bi	83	209	100				
		187	0-6			Th	90	232	(100)		
		188	13-4					U	92	235	< 1
		189	17-4							238	> 99
		190	25-1								
		192	42-5								