



CHEMRICH FINE CHEMICALS PVT. LTD

Element name	Symbol	Group classification	Atomic no	Atomic weight	Electronic configuration	Oxidation states	Melting Point oC	Boiling Point oC
Hydrogen	H	Main Group Element	1	1.008	1	-1.1	-259	-253
Helium	He	Main Group Element	2	4.003	2		-272	-269
Lithium	Li	Main Group Element	3	6.941	2-1	1	180	1342
Beryllium	Be	Main Group Element	4	9.01218	2-2	2	1278	2970
Boron	B	Main Group Element	5	10.81	2-3	3	2079	2550
Carbon	C	Main Group Element	6	12.011	2-4	+ - 4.2	3652	4827
Nitrogen	N	Main Group Element	7	14.0067	2-5	+ -3.2.4.5	-210	-196
Oxygen	O	Main Group Element	8	15.9994	2-6	-1-2	-218	-183
Fluorine	F	Main Group Element	9	18.9984	2-7	-1	-220	-188
Neon	Ne	Main Group Element	10	20.1179	2-8		-249	-246
Sodium	Na	Main Group Element	11	22.98977	2-8-2	1	98	883
Magnesium	Mg	Main Group Element	12	24.305	2-8-2	2	649	1090
Aluminum	Al	Main Group Element	13	26.98154	2-8-3	3	660	2467
Silicon	Si	Main Group Element	14	28.0855	2-8-4	4	1410	2355
Phosphorus	P	Main Group Element	15	30.97376	2-8-5	+ -3.4.5	44	280
Sulfur	S	Main Group Element	16	32.06	2-8-6	+ -2.4.6	113	445
Chlorine	Cl	Main Group Element	17	35.453	2-8-7	+ -1.3.5.7	-101	-35
Argon	Ar	Main Group Element	18	39.948	2-8-8		-189	-186
Potassium	K	Main Group Element	19	39.0983	-8-8-1	1	63	760
Calcium	Ca	Main Group Element	20	40.08	-8-8-2	2	839	1484
Scandium	Sc	Transition Element	21	44.9559	-8-9-2	3	1539	2832
Titanium	Ti	Transition Element	22	47.88	-8-10-2	3.4	1660	3287
Vanadium	V	Transition Element	23	50.9414	-8-11-2	2.3,4.5	1890	3380
Chromium	Cr	Transition Element	24	51.996	-8-13-1	2.3.6	1857	2672
Manganese	Mn	Transition Element	25	54.9380	-8-13-2	2.3.4.6.7	1244	1962
Iron	Fe	Transition Element	26	55.847	-8-14-2	2.3.6	1535	2750
Cobalt	Co	Transition Element	27	58.9332	-8-15-2	2.3	1495	2870
Nickel	Ni	Transition Element	28	58.690	-8-16-2	2.3	1453	2732
Copper	Cu	Transition Element	29	63.546	-8-18-1	1.2	1083	2567
Zinc	Zn	Transition Element	30	65.380	-8-18-2	2	419	907
Gallium	Ga	Main Group Element	31	69.720	-8-18-3	3	30	2403
Germanium	Ge	Main Group Element	32	72.590	-8-18-4	4	937	2830
Arsenic	As	Main Group Element	33	74.9216	-8-18-5	+ - 3.5	613	817
Selenium	Se	Main Group Element	34	78.960	-8-18-6	-2.4.6	217	685
Bromine	Br	Main Group Element	35	79.904	-8-18-7	+ -1.3.5.7	-7	59
Krypton	Kr	Main Group Element	36	83.800	-8-18-8	2.4	-157	-152
Rubidium	Rb	Main Group Element	37	85.4478	-18-8-1	1	39	686
Strontium	Sr	Main Group Element	38	87.620	-18-8-2	2	769	1384
Yttrium	Y	Transition Element	39	88.9059	-18-9-2	3	1523	3337
Zirconium	Zr	Transition Element	40	91.220	-18-10-2	4	1852	4377
Niobium	Nb	Transition Element	41	92.9064	-18-12-1	3.5	2468	4742

Molybdenum	Mo	Transition Element	42	95.940	-18-13-1	2.3.4.5.6	2617	4612
Technetium	Tc*	Transition Element	43	98.000	-18-13-2	7	2172	4877
Ruthenium	Ru	Transition Element	44	101.070	-18-15-1	3.4.8	2310	3900
Rhodium	Rh	Transition Element	45	102.90550	-18-16-1	1.2.3.4	1965	3727
Palladium	Pd	Transition Element	46	106.420	-18-18-0	2.4	1554	3140
Silver	Ag	Transition Element	47	107.868	-18-18-1	1.2	962	2212
Cadmium	Cd	Transition Element	48	112.410	-18-18-2	2	321	765
Indium	In	Main Group Element	49	114.820	-18-18-3	3	157	2080
Tin	Sn	Main Group Element	50	118.690	-18-18-4	2.4	232	2270
Antimony	Sb	Main Group Element	51	121.750	-18-18-5	+ 3.5	631	1750
Tellurium	Te	Main Group Element	52	127.600	-18-18-6	-2.4.6	450	990
Iodine	I	Main Group Element	53	126.9045	-18-18-7	+1.3.5.7	114	184
Xenon	Xe	Main Group Element	54	131.290	-18-18-8	2.46	-112	-107
Cesium	Cs	Main Group Element	55	132.9034	-18-8-1	1	725	669
Barium	Ba	Main Group Element	56	137.330	-18-8-2	2	28	1640
Lanthanum	La	Transition Element	57	138.9055		3	920	3454
Cerium	Ce	Lanthanide Element	58	140.120	-20-8-2	3.4	799	3426
Praseodymium	Pr	Lanthanide Element	59	140.9077	-21-8-2	3.4	931	3512
Neodymium	Nd	Lanthanide Element	60	144.240	-22-8-2	3	1021	3068
Promethium	Pm*	Lanthanide Element	61	145.000	-23-8-2	3	1168	2460
Samarium	Sm	Lanthanide Element	62	150.360	-24-8-2	2.3	1077	1791
Europium	Eu	Lanthanide Element	63	151.960	-25-8-2	2.3	822	1597
Gadolinium	Gd	Lanthanide Element	64	157.250	-25-9-2	3	1313	3266
Terbium	Tb	Lanthanide Element	65	158.9254	-27-8-2	3.4	1356	3123
Dysprosium	Dy	Lanthanide Element	66	162.500	-28-8-2	3	1412	2562
Holmium	Ho	Lanthanide Element	67	164.9304	-29-8-2	3	1474	2695
Erbium	Er	Lanthanide Element	68	167.260	-30-8-2	3	1522	2863
Thulium	Tm	Lanthanide Element	69	168.9342	-31-8-2	2.3	1545	1947
Ytterbium	Yb	Lanthanide Element	70	173.040	-32-8-2	2.3	819	1194
Lutetium	Lu	Lanthanide Element	71	174.967	-32-9-2	3	1663	3395
Hafnium	Hf	Transition Element	72	178.490	-32-10-2	4	2227	4602
Tantalum	Ta	Transition Element	73	180.9479	-32-11-2	5	2996	5425
Tungsten	W	Transition Element	74	183.850	-32-12-2	2.3.4.5.6	3410	5660
Rhenium	Re	Transition Element	75	186.207	-32-13-2	2.4.7	3180	5627
Osmium	Os	Transition Element	76	190.200	-32-14-2	2.3.6.4	3045	5027
Iridium	Ir	Transition Element	77	192.220	-32-15-2	1.2.3.4.6	2410	4130
Platinum	Pt	Transition Element	78	195.080	-32-16-2	2.4	1772	3827
Gold	Au	Transition Element	79	196.9665	-32-18-1	1.3	1064	3080
Mercury	Hg	Transition Element	80	200.590	-32-18-2	1.2	-39	357
thallium	Tl	Main Group Element	81	204.383	-32-18-3	1.3	304	1457
Lead	Pb	Main Group Element	82	207.200	-32-18-4	2.4	328	1740
Bismuth	Bi	Main Group Element	83	208.9804	-32-18-5	3.5	271	1560
Polonium	Po*	Main Group Element	84	(209)	-32-18-6	2.4.6	254	962
Astatine	At*	Main Group Element	85	(210)	-32-18-7	+1.3.5.7	302	337
Radon	Rn*	Main Group Element	86	(222)	-32-18-8	2	-71	-62
Francium	Fr*	Main Group Element	87	(223)	-18-8-1	1	[27]	[677]
Radium	Ra*	Main Group Element	88	226.0254	-18-8-2	2	700	1140
Actinium	Ac*	Transition Element	89	227.0278		3	1050	3200
Thorium	Th*	Actinide Element	90	232.0381	-18-10-2	4	1750	4790
Protactinium	Pa*	Actinide Element	91	231.0359	-20-9-2	4.5	<1600	
Uranium	U*	Actinide Element	92	238.0289	-21-9-2	3.4.5.6	1132	3818
Neptunium	Np*	Actinide Element	93	237.0482	-22-9-2	3.4.5.6	640	3902

Plutonium	Pu*	Actinide Element	94	(244)	-24-8-2	3.4.5.6	641	3232
Americium	Am*	Actinide Element	95	(243)	-25-8-2	3.4.5.6	994	2607
Curium	Cm*	Actinide Element	96	(247)	-25-9-2	3.4	1340	
Berkelium	Bk*	Actinide Element	97	(247)	-27-8-2	3.4		
Californium	Cf*	Actinide Element	98	(251)	-28-8-2	3.4		
Einsteinium	Es*	Actinide Element	99	(254)	-29-8-2	3		
Fermium	Fm*	Actinide Element	100	(257)	-30-8-2	3		
Mendelevium	Md*	Actinide Element	101	(257)	-31-8-2	3		
Nobelium	No*	Actinide Element	102	(253)	-32-8-2	2.3		
Lawrencium	Lr*	Actinide Element	103	(256)	-32-9-2	3		
	Db**	Transition Element	104	(260)	-32-10-2			
	Jl**	Transition Element	105	(260)	-32-11-2			
	Rf**	Transition Element	106	(263)	-32-11-2			
	Bh**	Transition Element	107	(262)				
	Hn**	Transition Element	108	(265)				
	Mt**	Transition Element	109	(266)				

Periodic Table of the Elements

												13	14	15	16	17	18		
												IIIA	IVA	VA	VIA	VIIA	VIIIA		
1	2											3	4	5	6	7	8	9	10
1	2											13	14	15	16	17	18		
1	2											5	6	7	8	9	10		
2	3	4											13	14	15	16	17	18	
2	3	4											13	14	15	16	17	18	
3	4	5	6	7	8	9	10	11	12										
3	4	5	6	7	8	9	10	11	12										
4	5	6	7	8	9	10	11	12											
4	5	6	7	8	9	10	11	12											
5	6	7	8	9	10	11	12												
5	6	7	8	9	10	11	12												
6	7	8	9	10	11	12													
6	7	8	9	10	11	12													
7	8	9	10	11	12														
7	8	9	10	11	12														

- Alkali metals
- Alkaline earth metals
- Transition metals
- Lanthanide series
- Actinide series
- Poor metals
- Nonmetals
- Noble gases

- C Solid
- Br Liquid
- H Gas
- Tc Synthetic

Atomic masses in parentheses are those of the most stable or common isotope.

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Note: The subgroup numbers 1-18 were adopted in 1984 by the International Union of Pure and Applied Chemistry. The names of elements 112-118 are the Latin equivalents of those numbers.

57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Lanthanum 138.9055	Cerium 140.116	Praseodymium 140.90765	Neodymium 144.24	Promethium (145)	Samarium 150.36	Europium 151.964	Gadolinium 157.25	Terbium 158.92534	Dysprosium 162.500	Holmium 164.93032	Erbium 167.259	Thulium 168.93421	Ytterbium 173.04	Lutetium 174.967
89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
Actinium (227)	Thorium 232.0381	Protactinium 231.03688	Uranium 238.02891	Neptunium (237)	Plutonium (244)	Americium (243)	Curium (247)	Berkelium (247)	Californium (251)	Einsteinium (252)	Fermium (257)	Mendelevium (258)	Nobelium (259)	Lawrencium (262)