

# Periodic Table of the Elements

MAIN GROUP ELEMENTS		TRANSITION ELEMENTS										MAIN GROUP ELEMENTS									
I												III	IV	V	VI	VII	VIII	II			
K-orbit	1																			2	
	H																			He	
L-orbit	3	4																			10
	Li	Be																			Ne
M-orbit	11	12																			18
	Na	Mg																			Ar
N-orbit	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36			
	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr			
O-orbit	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54			
	Rb	Sr	Y	Zr	Nb	Mo	Tc*	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe			
P-orbit	55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86			
	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po*	At*	Rn*			
Q-orbit	87	88	89	104	105	106	107	108	109												
	Fr*	Ra*	Ac*	Rf*	Ha*																

  

MAIN GROUP ELEMENTS		TRANSITION ELEMENTS										MAIN GROUP ELEMENTS							
I												III	IV	V	VI	VII	VIII	II	
Atomic number												47							
Symbol												Ag							
Atomic weight (referred to <sup>12</sup> C)												107.868							
Melting point (°C)												2212							
Boiling point (°C)												2962							
Covalent radii (10 <sup>-15</sup> m)												1.34							
Electronegativity (Pauling)												1.9							

  

MAIN GROUP ELEMENTS		TRANSITION ELEMENTS										MAIN GROUP ELEMENTS							
I												III	IV	V	VI	VII	VIII	II	
METAL																			
METALLOID																			
NON-METAL																			

  

MAIN GROUP ELEMENTS		TRANSITION ELEMENTS										MAIN GROUP ELEMENTS							
I												III	IV	V	VI	VII	VIII	II	
IUPAC, Nomenclature of Inorganic Chemistry, 1989																			
IUPAC, Rules for Inorganic Nomenclature, 1970, Main Group elements																			
IUPAC, Rules for Inorganic Nomenclature, 1970, Transition elements																			

  

LANTHANIDE ELEMENTS		TRANSITION ELEMENTS										MAIN GROUP ELEMENTS							
III												III	IV	V	VI	VII	VIII	II	
58	59	60	61	62	63	64	65	66	67	68	69	70	71						
Ce	Pr	Nd	Pm*	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu						
140.12	140.9077	144.24	(145)	150.36	151.96	157.25	158.9254	162.50	164.9304	167.26	168.9342	173.04	174.967						
798	931	1012	1012	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060						
3257	3111	3212	3112	3127	3127	3127	3127	3127	3127	3127	3127	3127	3127						

  

ACTINIDE ELEMENTS		TRANSITION ELEMENTS										MAIN GROUP ELEMENTS							
III												III	IV	V	VI	VII	VIII	II	
90	91	92	93	94	95	96	97	98	99	100	101	102	103						
Th*	Pa*	U*	Np*	Pu*	Am*	Cm*	Bk*	Cf*	Es*	Fm*	Md*	No*	Lr*						
232.0381	231.0359	238.0289	237.0482	244	243	247	247	(251)	(254)	(257)	(257)	(255)	(256)						
1790	1600	1810	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840						
4790	1.3	1.5	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7						

(209) Longest half-life isotope mass is chosen \*all isotopes are radioactive, <sup>1)</sup> 26 atm, <sup>2)</sup> 5 mm, <sup>3)</sup> subl., <sup>4)</sup> white, <sup>5)</sup> 28 atm

