

The Periodic Table of the Elements

A Computer Database

© 1990 D.D. All Rights Reserved.

MENUS

- The Periodic Table of the Elements
 - All the Elements Except the Lanthanides & Actinides
 - The Lanthanides & Actinides
- Elements by Atomic Number (1 to 107)
- Elements by Chemical Symbol (Ac to Zr)
- Elements by Name (Actinium to Zirconium)
- Trends Within Groups (1 to 18)
 - Atomic Weight
 - Boiling Point
 - Melting Point
 - Bond Length (between like atoms)
 - Electronic Configuration
 - Oxidation State(s)
 - First Ionization Potential
 - Electron Affinity
- Trends Within Periods (1 to 7)
 - Atomic Weight
 - Boiling Point
 - Melting Point
 - Bond Length (between like atoms)
 - Electronic Configuration
 - Oxidation State(s)
 - First Ionization Potential
 - Electron Affinity

SAMPLE ENTRY

1) HYDROGEN [H]

GROUP: 1

PERIOD: 1

ATOMIC WEIGHT: 1.00794

MELTING POINT: -259.34°C

BOILING POINT: -252.87°C

H-H BOND LENGTH: 0.74611 Å

ELECTRONIC CONFIGURATION: 1s¹

OXIDATION STATE(S): -1, +1

FIRST IONIZATION POTENTIAL: 13.598 eV

ELECTRON AFFINITY: 0.754209 eV

GROUP 1: TREND FOR ELECTRONIC CONFIGURATION

1	HYDROGEN [H]	1s ¹
3	LITHIUM [Li]	K2s ¹
11	SODIUM [Na]	KL 3s ¹
19	POTASSIUM [K]	KL 3s ² ,p ⁶ ,d ⁰ ,f ⁰ 4s ¹
37	RUBIDIUM [Rb]	KLM 4s ² ,p ⁶ ,d ¹⁰ ,f ⁰ 5s ¹
55	CESIUM [Cs]	KLM 4s ² ,p ⁶ ,d ¹⁰ ,f ⁰ 5s ² ,p ⁶ ,d ⁰ ,f ⁰ 6s ¹
87	FRANCIUM [Fr]	KLMN 5s ² ,p ⁶ ,d ¹⁰ ,f ⁰ 6s ² ,p ⁶ ,d ⁰ ,f ⁰ 7s ¹

SCREENSHOT: THE PERIODIC TABLE OF THE ELEMENTS (less Lanthanides & Actinides)

Periods	Groups		Chemical Symbol →														#	←Atomic Number	18	Shells
1	1	2											13	14	15	16	17	18	K	
	H																	He		
2	3	4											5	6	7	8	9	10	KL	
	Li	Be											B	C	N	O	F	Ne		
3	11	12	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	KLM	
	Na	Mg											Al	Si	P	S	Cl	Ar		
4	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	KLMN	
	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
5	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	KLMNO	
	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe		
6	55	56	57	*	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	KLMNOP
	Cs	Ba	La		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
7	87	88	89	**	104	105	106	107												KLMNOPQ
	Fr	Ra	Ac		Unq	Unp	Unh	Uns												

ENTER (0) for Lanthanides [*] & Actinides [**], or (atomic #) for element: _____