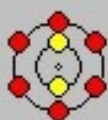




O	S	Se	Te	Po	Uuh	Uhh	Buh
8	16	34	52	84	116	166	216

Oxygen

Symbol	O
Atomic Number	8
Relative Atomic Mass $^{12}\text{C} = 12.0000$	153.9994
Atomic Radius pm	66
First Ionisation Energy kJ mol^{-1}	1313.9
Ionization energy (eV)	13,6181
Electronegativity	3.44
Density kg m^{-3}	2000 [m.p.] 1140 [b.p.] 1.429 [273 K]
Molar Volume cm^3	8.00 [54 K]
Thermal Conductivity $\text{W m}^{-1} \text{K}^{-1}$	0.2674 [300 K]
Melting Point K	54.8
Boiling Point K	90.188
Number of Isotopes	8
Inner + outer Shells	1 + 1 = 2
Inner + outer Orbitals	2 + 6 = 8
Filling Orbital	2p ⁴
Ground State Electron Configuration	[He] 2s ² 2p ⁴
Ground State Electron Configuration with free Orbitals (n= 2)	



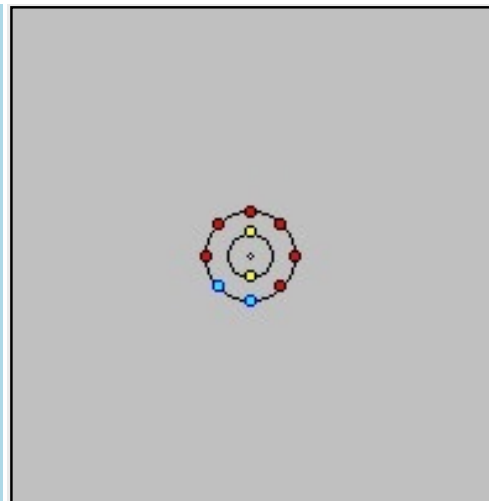
2, 6

0, 2



Ground State Electron Configuration with compressed Orbitals (n=0)

0, 0



Singularity

10 = 2 + 6 + 2 + 0

	s	p	d	f	g	h	i	j
1	2							
2	2	4	2					
3								
4								
5								
6								
7								
8								

Term Symbol

3P_2

Discovery

Discovered by J. Priestley (Leeds, England) in 1774

Name Derived From

Greek oxy genes meaning 'acid forming'