Selenium (Se)

Atomic number: 34 < Atomic mass: 78.971

Description: The name is derived from 'Selene', the Greek name for the moon.

Discovered by: Jons Jacob Berzelius in 1817



Melting point: 494K **Boiling point: 958K**

Density: 4.809 g/cm³ State: Solid

Period: 4 Block: p Group: 16

Electronic Configuration: [Ar]3d¹⁰4s²4p⁴

Isotopes: 80 Se

Appearance: It can exist in 2 forms, as a silvery

metal or as a red powder.

Additional: It has both photovoltaic action (converts light into electricity) and photoconductive action (electrical resistance decreases with increase illumination.).

Uses:

- 1) Used as additive in gas. Some of its compounds decolorize glass, while other give a deep red color.
- 2) It can also be used in transmission of sunlight in architectural glass giving it a bronze tint.
- 3) Selenium is used in making pigments of ceramics paints and plastics.
- 4) It is used in photocells, solar cells and photocopiers.
- 5) It can AC electricity to DC electricity so is extensively used in rectifiers.
- 6) Selenium is toxic to scalp fungus that causes dandruff, so it is used in anti-dandruff shampoos.
- 7) It is also used as an additive in stainless steel.

Source: www.rsc.org

