

# Plutonium (Pu)

Atomic number- 94

Atomic mass- 244

Description: Plutonium, is named after the planet Pluto in the solar system and is followed by the elements neptunium and uranium. It was discovered in 1940

Its discoverer: Glenn Seaborg and his colleagues

Properties:

Melting point: 913K

Boiling point: 3501K

Density:  $19.7\text{g/cm}^3$

State: Solid

Group: Actinides

Period: 7

Block: f

Electronic Configuration:  $[\text{Rn}]5f^6 7s^2$

Appearance: A radioactive silvery metal. It is extremely toxic.

Isotopes:  $^{238}\text{Pu}$ ,  $^{239}\text{Pu}$ ,  $^{240}\text{Pu}$

Uses:

- 1) Used in atomic bomb, nuclear weapons
- 2) Used in Space missions and nuclear plants as source of energy.

Source: [www.rsc.org](http://www.rsc.org)



