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Periodic Table: Ruthenium

At Chemical Elements.com

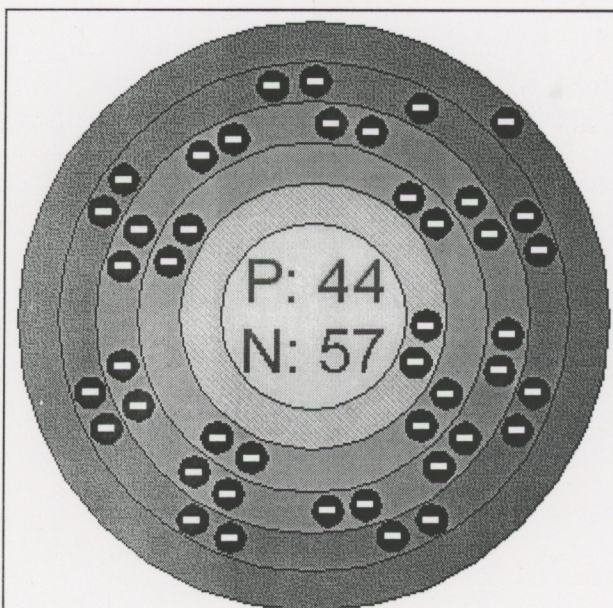
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Basic Information

Name: Ruthenium**Symbol:** Ru**Atomic Number:** 44**Atomic Mass:** 101.07 amu**Melting Point:** 2250.0 °C (2523.15 °K, 4082.0 °F)**Boiling Point:** 3900.0 °C (4173.15 °K, 7052.0 °F)**Number of Protons/Electrons:** 44**Number of Neutrons:** 57**Classification:** [Transition Metal](#)**Crystal Structure:** Hexagonal**Density @ 293 K:** 12.2 g/cm³**Color:** silvery

Atomic Structure

**Number of
Energy Levels: 5****First
Energy
Level: 2
Second
Energy
Level: 8
Third
Energy
Level: 18
Fourth
Energy
Level: 15
Fifth Energy**

Level: 1

Isotopes

Isotope	Half Life
Ru-96	Stable
Ru-97	2.89 days
Ru-98	Stable
Ru-99	Stable
Ru-100	Stable
Ru-101	Stable
Ru-102	Stable
Ru-103	39.27 days
Ru-104	Stable
Ru-105	4.44 hours
Ru-106	1.02 years

Facts

Date of Discovery: 1844

Discoverer: Karl Klaus

Name Origin: From the Latin word *Ruthenia* (Russia)

Uses: platinum alloys

Obtained From: pentlandite, pyroxinite

Related Links

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