

Iodine

Symbol - I

Atomic Number - 53

Atomic Weight - 126.90447

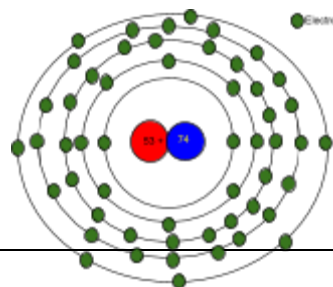
of Protons - 53

of Neutrons - 74

of Electrons - 53

Discovered by - Bernard Courtois in 1811 (France)

Found in - Earth's Crust and Oceans; Some Seaweed;
Near Oil and Natural Gas Fields



Properties	Human Uses
<i>Color</i> - Bluish-Black	Humans need Iodine for nutrition Iodine deficiency affects about two billion people
<i>Melting Point</i> - 236.66 F	Leading preventable cause of intellectual disabilities
<i>Boiling Point</i> - 363.7 F	Involved in Production of Acetic Acid (<i>A distinct odor; Vinegar</i>)
<i>Freezing Point</i> - 113.55 F	X-Rays Sanitation Systems
<i>Density of Solid</i> - 4.949 g/cm ³	Kills bacteria and germs
<i>Phase at Room Temperature</i> - Solid	Animal Feed Dyes Photography Used in the Thyroid Gland
<i>Compounds</i> - Easily combines with Potassium and Sodium	Controls body's growth rate Too little Iodine = stunted growth and cognitive ability

Interesting Information

- Pure Iodine can be very dangerous
 - Can cause skin burning and eye burning
- Many people get the iodine they need from eating seaweed
- Foods rich in iodine include fish, dairy products, some fruits and vegetables, and in iodized salt
- Pregnant women need more iodine than the average person. They get this through dietary supplements.
- Too much iodine can make some sick

Superhero: Iodinium

Alias: Bernard Courtois¹

Born: July 4, 2053²

Birthplace: Mediterranean Sea³ (*Near the coast of France*)⁴

Symbol:



Superpowers:

- Able to grow and shrink at will⁵
- Able to see through solid objects⁶
- Able to withstand very high temperatures⁷
- Produces chemicals that burn the skin of enemies⁸
- Able to change color to camouflage with surroundings⁹

Weaknesses:

- Very cold temperatures¹⁰
- Too much time on land (*Needs to be in salty water to stay healthy*)¹¹
- When changing size multiple times, Iodinium will become weaker¹²

Teammates:

- Salty¹³
- Bananaman¹⁴

Resources:

- http://www.ducksters.com/science/periodic_table.php
- http://www.chem4kids.com/files/elem_intro.html
- <http://www.ptable.com/>
- <http://www.webelements.com/>

¹ Discovered Iodine

² # of Protons and Electrons = 53; # of Neutrons = 74

³ Often found in Oceans

⁴ Discovered in France

⁵ Used by Thyroid Gland, which regulates growth in organisms

⁶ Used in X-Rays

⁷ Boiling Point = 363.7 F

⁸ Pure Iodine can cause skin and eyes to burn

⁹ Used in Dyes

¹⁰ Freezing Point = 113.55 F

¹¹ Often found in Oceans

¹² Too much Iodine can make someone sick

¹³ Combines easily with Sodium to make compounds (NaI)

¹⁴ Combines with Potassium to make compounds (KI)