

**IODINE**

# Properties

- Under ordinary conditions iodine is solid black-grey with violet metallic luster substance. It is slightly soluble in water. Iodine is very toxic.



- In heating iodine gives off violet vapors with acrid odour.

# Being in nature

- ▣ Iodine is rare element in spite of its little content in almost all. It is contains in all living organisms, water, minerals, soil. The largest quantity contains in seawater.
- ▣ Due to its chemical active it doesn't occur in nature in a free state.
- ▣ Lautarite is the most famous mineral of iodine.
- ▣ 99% of reserves are in Chile and Japan.

# History

- In 1811 Courtois first found iodine in ash of seaweed.



- In 1813 -1814 Gay-Lussac proved that iodine is a new simple substance and chemical element.

# Applications

- ▣ Iodine is used in medicine as a solution for disinfection.
- ▣ It is used in technique as light source and to create batteries.
- ▣ It is used in criminology to detect fingerprints in paper surfaces.
- ▣ Iodine is used to create liquid crystal display.