

Chlorine



Atomic Mass: 35.45u

Atomic Number: 17

Family: Halogen Family

Standard State: Gas

Discovery

- Discovered in 1774 by Carl Wilhelm Scheele through chemical reactions
- He thought it contained oxygen until it was proven an element in 1810 by Sir Humphry Davy.

Stable Isotopes

- atomic Mass ↓
- Chlorine-35 (^{35}Cl) - 34.968
 - Chlorine-37 (^{37}Cl) - 36.956

Description

- Chlorine is an element used in industry and found in some household products.
- Chlorine is sometimes in the form of poisonous gas.
- Chlorine has a pungent irritating odor just like bleach.
- Chlorine gas appears to be yellow-green in color.



17 protons

18 neutrons

18 electrons

→ Chlorine-35
(Stable Isotope)



Modern Implications

- Chlorine is used mostly as a water disinfectant but is also used in other applications such as bleaching agents.
- There is no cure for chlorine poisoning and research is still being done on ways to help treat it if someone was poisoned.