

# CHLORINE (Cl<sub>2</sub>)



## Gas Description

Chlorine is a greenish/yellowish coloured gas with an pungent odour. It is non-flammable with a gas density at STP 3.04 kg/m<sup>3</sup>. Chlorine is a stronger oxidizer than oxygen. It will react violently with organic compounds: oil, grease, hydrocarbons, ammonia etc. It becomes corrosive when wet.

### Typical applications :

Water treatment  
Manufacture of pulp and textiles  
Manufacture of chlorinated hydrocarbons, rubbers and plastics  
Metal refining  
Plasma etching

### Transport Regulations :

UN Number : 1017  
Shipping Name : CHLORINE  
Class : 2.3 (8) Toxic (corrosive)  
CAS Number : 7782-50-5  
Hazchem : 2XE

[Click here](#) for MSDS  
[Click here](#) for more information

## Physical Properties

Chemical symbol : Cl<sub>2</sub>  
Molecular weight : 70.91  
Specific gravity (Air=1) : 2.49  
Specific volume (m<sup>3</sup>/kg) : 0.33  
Critical temperature : 144°C  
Boiling point : -34.1°C

Melting Point : -101°C  
Critical pressure (bar) : 77.15  
Major hazards : Inhalation and Body Contact  
Toxicity : TWA 1ppm STEL peak limitation  
Flammability Range : Supports Combustion  
Odour : Pungent, Irritating

[Click here](#) for more information

## Application

### INDUSTRY

Chemicals

Pulp and Paper

Metals Industry

Electronics

Environmental

### APPLICATION

Used for the manufacture of polyvinylchloride (PVC) and other various organic products.

Pulp bleaching processes used chlorine.

Largely used in the production of titanium dioxide. Used for the purification of aluminium.

In semiconductor manufacturing it is used in plasma etching of aluminum.

Chlorine is used for drinking and swimming water purification.

[Click here](#) for more information

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## Chlorine

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m <sup>3</sup> )

Available Upon Request  
Call For Supply Information

### Recommended Equipment

For further information [Contact](#) the specialty gases representative in your region.