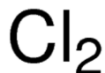


Chemical Structure and Identity



Specifications

Sr. No.	Characteristics	Unit	Standard Value
1	Description	-	Clear Amber Liquid
2	Odor	-	Characteristics suffocation
3	Purity	%	99.8 Min.

CAS No. 7785-50-5

Technology 231-959-5

Technology AKCC

UN No 1017

Class 2

Packing Group III

State Liquid

Commercial Trade Name None

Synonyms None

Chemical Formula Cl₂

Molecular Weight 71

Handling & Safety

- STORAGE REQUIREMENTS Chlorine may be kept outdoors or in a well-ventilated, detached or segregated area of non-combustible construction.
- When Chlorine is stored in a confined area or Gas Storage Room then the construction and maintenance must comply to the requirement of SANS 10298: 2009.
- Chlorine Storage containers should be protected against physical damage, and kept separate from combustible, organic or easily oxidisable materials, especially acetylene, ammonia, hydrogen, hydrocarbons, ether, turpentine and finely divided metals.
- A chlorine leak due to corrosion of a brass needle valve to a chlorine gas cylinder has been reported; stainless steel or monel metal is therefore recommended.
- Permanent storage is generally not recommended; a maximum of about 450 t may be handled in high strength tanks as a liquefied gas under pressure.
- Low temperature storage at atmospheric pressure is preferred for larger amounts; evaporating chlorine gas is re-liquefied by a small refrigeration unit and recycled.
- A standby absorber unit e.g. caustic soda solution tank, is also recommended in case of refrigeration unit failure. N.B.
- Always store chlorine cylinders (68 kg) in an upright position and portable tanks (900-1000 kg) on their sides.

CHLORINE-99.5%

Technical Data Sheet



- Keep full and empty containers separated. HANDLING PRECAUTIONS Chlorine should be handled wearing an approved respirator, safety goggles, and chemical resistant gloves.
- It should only be used in a chemical fume hood. Cylinder temperature should not exceed 52°C.

Application

Poly Vinyl Chloride (PVC)
Chlorinated Organic Solvents
Chlorinated Paraffin Wax (CPW)
Water Purification
Bleaching Agent
Waste & Sewage Treatment
Disinfecting Agent
Sanitizing Agent
Synthetic Chlorinated Rubber
Sodium Hypochlorite
Calcium Hypochlorite
Isocyanates
Polycarbonate
Chloromethanes
Perchloroethane
Phosgene
Inorganic Chlorides
Epichlorohydrin
Poly Aluminium Chloride
Silicon dioxide (Aerosol)

Package Unit

900 kg Tonner

Contact

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