

LIQUID CHLORINE

Last revision 2011

Chemical Name: Molecular formula: Cl₂
 No.CAS: 7782-50-5
 Abbreviation: -

General Description:

Chlorine is a green-yellowish gas, with specific odour, irritating and sultry. The product easily liquefies under pressure even at normal temperature. Chlorine is heavier than the air and accumulates in lower areas. It easily dissolves in water, resulting in a yellow-greenish solution (chlorine water), unstable at contact with light. Chlorine easily dissolves in chlorinated organic solvents: chloroform, carbon tetrachloride, dichloroethane, etc.

Technical Quality Conditions:

Characteristics	MU	Values	Test methods
Chlorine (Cl ₂), min. (v/v)	%	99.8	STAS 991
Water, max. (w/w)	ppm	35	ILL-033/2-01-12
Nitrogen trichloride (NCl ₃), max.	ppm	12	ILL-033/2-01-15

Specific Properties:

Molecular weight	70.914
Boiling point	-33.6°C
Vapour pressure at 20°C	6860 mmHg
Density in gaseous state at 0°C and 760 mm Hg	3.214 g/cm ³
Density in liquid state at 0°C and 3.65 atm	1.47 g/cm ³

The specific properties present approximate values and contain general information, without being part of the technical quality conditions.

Main Applications:

- hydrochloric acid;
- rubber;
- synthetic fibers;
- plastics;
- water purification;
- as oxidizing agent for the synthesis of organic, and inorganic chlorinated compounds;
- paper and cellulose bleaching;
- as disinfectant and clean agent in food industry;
- to de-tin tinplate.



Packaging and storage:

Liquid chlorine is packed in special tanks properly marked, supplier or customer property, and in cylinders or containers, customer property.

Road transportation is made in special motor vehicles, accompanied by an authorized delegate, instructed in this respect. The rail tanks should be accompanied by an authorized delegate to the Romanian border.

Safety Information:

Chlorine is a toxic product.

Before handling and using of product, the personnel must be aware of the dangers implied. This information is available in MSDS and on the product label.

Warning:

Please contact OLTCHIM to see if the document has been revised and for any other additional information related to the product.

Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.