

SYNTHESIS HYDROCHLORIC ACID

Last revision 2011

Chemical Name: Molecular formula: HCl
 NO.CAS: 7647-01-0
 Abbreviation: -

General Description:

Hydrochloric acid is a colorless to yellow-greenish liquid, with pungent odor. The product can be mixed in any proportion with water, acetic acid, ethyl alcohol, chloroform, acetone, etc.

Hydrochloric acid is a strong acid and also a very stable compound. At heat (over 1500°C) it decomposes in hydrogen and chlorine.

Technical Quality Conditions:

Characteristics	MU	Values		Test methods
		Type I	Type II	
Appearance	-	clear liquid		visual
Color	-	colorless to yellow-greenish		visual
Hydrogen chloride (HCl), min.	%	32		STAS 339
Iron (Fe), max.	%	0.001	0.002	STAS 339
Chlorine (Cl ₂),max.	%	0.01		ILL003/2-44

Specific Properties:

pH	0,1 (solution 4%)
Boiling point	-84°C
Density, g/cm ³	1.19
Ignition temperature	not ignitable

The values of those characteristics are approximated, and are only for general information and are not part of the technical quality conditions.

Main Applications:

- inorganic and organic chemical industry;
- pharmaceutical industry;
- synthetic fibers industry;
- leather industry;
- metalworking industry (for scouring and decaling);
- as regenerating agent for ion exchange resins used in water demineralization plants;
- oil industry as neutralizing agent, for oil processing;
- metallurgical industry as pickling and cleaning agent;
- rubber industry, for chloroprene synthesis;
- ceramic and textile industries;

TECHNICAL SHEET



Packaging and storage:

It is packed in lined steel tanks (ebonite covering), supplier or client property.
It is stored in lined steel tanks (ebonite covering) equipped with degassing pipes.

Safety Information:

Hydrochloric acid is an aggressive and 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.