

Hydrochloric Acid

Properties	
Appearance	Yellow
Boiling point	110°C (For 30 % Solution)
Fusion point	-20°C (For 30 % HCl Solution)
Specific Gravity	1.19 at 20°C
Vapour pressure	11 mmHg (Sol. at 30% HCl at 20°C)
Physical state	Liquid
Solubility in water	Soluble in water in all proportions
pH	> 1
Odour	Sharp irritating Odour
Others	Soluble in Ethyl Alcohol & Ethyl Ether

Chemical Identity	
Formula: HCL	CAS No. 7647-01-0
UN No. 1789	Codes/Label - Corrosive, Class 8
Hazchem Code	2R

Specifications	
% of HCl	30% (Minimum)
Iron as Fe	5 ppm (Maximum)

Note: We can also meet user's specifications.

Toxicity	
Permissible Exposure Limit	7 (Ceiling) Mg/m ³
TLV (ACGIH)	7 (Ceiling) Mg/m ³
Odour Threshold	1-5 ppm

Applications

Hydrochloric Acid is used in:

- Steel Industry -- For pickling
- Ossein/gelatin -- To treat animal skin, bones for making ossein
- Chemicals -- Calcium Chloride, Phosphoric acid, CSA, FeCl₃.
- Demineralisation Plant -- Cationic regeneration
- For manufacture of Fullers earth
- Pharmaceuticals (in Paracetamol, Analgin, Ranitidine, Ibuprofen, Ciproflaxacin etc.)
- Textiles (In finishing operations at mercerizing & bleaching Stages).

Packaging

Hydrochloric Acid	M.S.R.L. Road tankers.
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Safety / Precaution

Do not inhale the vapours. Do not touch with bare hands. Use safety goggles, hand gloves. Use with adequate ventilation.

First Aid Measures

Inhalation: Remove to a fresh air area.

Indigestion: Give lime water or water & milk of magnesia to drink. Do not induce vomiting. Call a physician

Disposal: Cover small spill with mixture of Soda Ash, Slaked Lime. Flush large spills with water to holding area & neutralise them.

Other Details

ITC Classification: 28061000

UN No. 1789

IMO Classification: 8 – Corrosive Substance

IMDG No. 8102