



Product Specification

Product Name: HYDROCHLORIC ACID 32% AR

Alternate Name(s) HYDROCHLORIC ACID

Description

Colourless or slightly yellow, fuming, pungent liquid.

Properties

Chemical Formula: HCl

Molecular Weight: 36.46

Product Code: HA020

CAS No. 7647-01-0

General Information:

Aqueous solution of the gas hydrogen chloride. Soluble in alcohol and benzene. Incompatible with strong bases. Highly corrosive to most metals. Non combustible material. Vapour irritates mucous membranes.

Hazard and Safety Data

UN Group: II
Class: 8
UN Number: 1789
Hazchem code: 2R
CS MSDS Code: 1CH34
Poison schedule: S6
Emergency
Procedure Guide No.: 40

Quality Specification

Typical Assay: 31.5% w/w min.

Specific Properties and Impurities [Typical Levels]

Melting Point	-46.2°C	Specific Gravity	1.15 g/ml
Residue after ignition	≤ 0.0005%	Free chlorine (Cl)	≤ 0.0001%
Sulfate (SO ₄)	≤ 0.0001%	Sulfite (SO ₃)	≤ 0.0001%
Ammonium (NH ₄)	≤ 0.0001%	Colour	Passes test
Aluminium (Al)	≤ 0.00005%	Arsenic (As)	≤ 0.000002%
Barium (Ba)	≤ 0.00002%	Cadmium (Cd)	≤ 0.000005%
Calcium (Ca)	≤ 0.0001%	Cobalt (Co)	≤ 0.000001%
Copper (Cu)	≤ 0.000002%	Iron (Fe)	≤ 0.00005%
Lead (Pb)	≤ 0.000005%	Magnesium (Mg)	≤ 0.00005%
Manganese (Mn)	≤ 0.000002%	Molybdenum (Mo)	≤ 0.000002%
Nickel (Ni)	≤ 0.000005%	Potassium (K)	≤ 0.00005%
Sodium (Na)	≤ 0.0001%	Strontium (Sr)	≤ 0.000002%
Zinc (Zn)	≤ 0.00001%		

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