



Summary Technical Data Sheet

Hydrochloric Acid Reagent (ACS)

Product Name: Hydrochloric Acid Reagent (ACS)

CAS Number: 7647-01-0

Formula: HCl

Molecular weight: 134.08 g/mol

Synonym: Muriatic Acid

Appearance: light yellow liquid

Boiling Point: 50.5° C

Melting Point: -30° C

Specific Gravity: 1.19 gm/ml

Solubility: miscible with water

Typical Product Specifications

Properties	Specifications
HCl Assay %	36.5-38.0 %
Color, APHA	≤ 10
Residue after ignition	≤ 5 ppm
Bromide (Br)	≤ 0.005%
Sulfate (SO ₄)	≤ 1 ppm
Sulfate (SO ₃)	≤ 1 ppm
Extractable organic substances	5 ppm
Free Chlorine (Cl)	≤ 1 ppm
Ammonium (NH ₄)	≤ 3 ppm
Arsenic (As)	≤ 0.01 ppm
Heavy metals (as Pb)	≤ 1 ppm
Iron (Fe)	≤ 0.2 ppm
Free from suspended matter or sediment	

Hydrochloric acid is a strong inorganic acid which completely dissociates in water forming hydronium and chloride ions. Hydrochloric acid is widely used as a chemical reagent and in analytical chemistry for titrations and for digestion of samples for analysis. Hydrochloric acid is an important chemical reagent used for the production of calcium chloride from limestone, vinyl chloride/PVC resins, and many chlorinated chemicals. Hydrochloric acid is widely used in industry, including steel pickling, oil well acidizing, ore processing, chemical manufacturing and food processing.

Storage and Handling: Store in a cool and dry place and in tightly closed container. Store separately from alkali and strong bases.

Packaging: 2.5 L

Transport Regulations: UN 1789, Class 8, Packing Group II.

The above information, while not guaranteed, reflects our analysis and believed to be accurate. It is the end user's responsibility, prior to use of the above mentioned product to determine the suitability of the product. Aqua Bond shall not be, directly or indirectly responsible for damages of any nature whatsoever resulting from the use or reliance upon the above information.