



ELRASA - ELRASA - HCA35™ (Hydrochloric Acid)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Colourless clear liquid
Physical Form	Liquid
Odor	Pungent, irritating odor.
Molecular Weight	36.46 g/mol.
Density / Specific Gravity	1.159 g/cm ³
pH (aqueous solution)	<1.0.
Assay / Purity	35%
General Information	
CAS Number	7647-01-0
Chemical Properties	
pKa	-5.9.
Ionic Nature	Strong acid, completely ionized in aqueous solution.
Incompatibilities	Bases, amines, metals, oxidizing agents (e.g., permanganates, chlorates), metal acetylides, hexalithium disilicide, acetic anhydride, chlorosulfonic acid, oleum, sulfuric acid, vinyl acetate.
Hazardous Reactions / Decomposition Products	Contact with metals may evolve flammable hydrogen gas. Decomposes under heat to form hydrogen chloride and chlorine gas.
Thermal Properties	
Melting Point	-43 °C
Boiling Point	84 °C
Flash Point	Non-flammable.
Autoignition Temperature	Not flammable.
Thermal Stability	High thermal stability.
Solubility	
Solubility in Water	Soluble / Miscible.



2. Dosing by Application

Application	Recommended / Max Dosage
Steel Pickling (Hot-rolled steel)	15 - 20%
Steel Pickling (Cold-rolled steel)	8 - 12%
Steel Pickling (General)	3 - 15%
Oil Well Acidizing	15%
Ion Exchange Resin Regeneration	4 - 8%
pH Control (Municipal Water)	5 - 10%
Food Processing (e.g., corn syrup, gelatin)	3 - 10%
RO Membrane Cleaning	2 - 3%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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