

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:
Hydrochloric acid solution – 32 wt. % in H₂O, FCC

Product Number: **W530574**

CAS Number: 7647-01-0

HCl

Formula: HCl

Formula Weight: 36.46 g/mol

TEST	Specification
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Appearance (Color)	Colorless to Very Light Yellow
Appearance (Form)	Liquid
Purity (Titration by NaOH)	31.0 - 33.0 %
Chloride Test	Pass
Oxidizing Substances	Pass
NMT 0.003% as CL	
Reducing Substances	Pass
NMT 0.007% as SO ₃	
Sulfate (SO ₄)	≤ 0.5 %
Residue on Evaporation	≤ 0.5 %
non-volatile residue	
Organic Volatile Impurities (non fluorine)	Pass
Organic Volatile Impurities (fluorine)	Pass
Miscellaneous Assay	19 - 21
Degrees Baume' (Calculated from Specific Gravity)	
Specific Gravity	1.1500 - 1.1700
at 25°C	
Iron (Fe)	≤ 5.0 ppm
Arsenic (As)	≤ 3 ppm
Cadmium (Cd)	≤ 1 ppm
Mercury (Hg)	≤ 0.10 ppm
Lead (Pb)	≤ 1 ppm

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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