

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:  
Hydrochloric acid – ACS reagent, 37%

Product Number: **258148**  
 CAS Number: 7647-01-0  
 MDL: MFCD00011324  
 Formula: HCl  
 Formula Weight: 36.46 g/mol

# HCl

TEST	Specification
Appearance (Clarity) Free from Suspended Matter or Sediment	Clear
Appearance (Color)	Colorless
Appearance (Form)	Liquid
Color Test	≤ 10 APHA
Titration with NaOH	36.5 - 38.0 %
Arsenic (As)	≤ 0.01 ppm
Bromide	≤ 0.005 %
Iron (Fe)	≤ 0.2 ppm
Heavy Metals (by ICP)	≤ 1 ppm
Sulfate	≤ 1 ppm
Residue on Ignition (ppm)	≤ 5 ppm
Free Chlorine	≤ 1 ppm
Ammonium	≤ 3 ppm
Sulfite (ppm)	≤ 1 ppm
Meets ACS Requirements	Current ACS Specification
Recommended Retest Period 2 Years	-----

Specification: PRD.11.ZQ5.10000004195

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](http://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.

