

Product Specification

Material Number:	85493
Material Description:	Hydrochloric Acid 29-31%
Grade:	NORMATOM for trace metal analysis
CAS Number:	7647-01-0
Molecular Weight:	36.46 g/mol
Molecular Formula:	HCl
Date Specification Set:	February 2026

(All batches of this product after this date are tested to this specification. In the unlikely event that the specification is changed a new certificate will be issued)

Characteristic	Maximum Specification
Assay (HCl)	29 - 31% w/w
Colouration	10 APHA
Br (Bromide)	10 ppm
Cl ₂ (Free Chlorine)	0.5 ppm
NH ₄ (Ammonium)	0.5 ppm
P (Total Phosphorus)	0.01 ppm
S (Total Sulphur)	0.3 ppm
Ag (Silver)	1 ppb
Al (Aluminum)	1 ppb
As (Arsenic)	0.5 ppb
Au (Gold)	0.5 ppb
B (Boron)	1 ppb
Ba (Barium)	0.1 ppb
Be (Beryllium)	0.1 ppb
Bi (Bismuth)	0.1 ppb
Ca (Calcium)	1 ppb
Cd (Cadmium)	0.1 ppb
Ce (Cerium)	0.1 ppb
Co (Cobalt)	0.1 ppb
Cr (Chromium)	0.5 ppb
Cs (Cesium)	0.1 ppb
Cu (Copper)	0.5 ppb
Dy (Dysprosium)	0.1 ppb
Er (Erbium)	0.1 ppb
Eu (Europium)	0.1 ppb
Fe (Iron)	1 ppb
Ga (Gallium)	0.1 ppb
Gd (Gadolinium)	0.1 ppb
Ge (Germanium)	1 ppb
Hf (Hafnium)	0.1 ppb
Hg (Mercury)	0.1 ppb
Ho (Holmium)	0.1 ppb
In (Indium)	0.1 ppb
K (Potassium)	1 ppb
La (Lanthanum)	0.1 ppb
Li (Lithium)	0.1 ppb
Lu (Lutetium)	0.1 ppb
Mg (Magnesium)	0.5 ppb
Mn (Manganese)	0.1 ppb

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Characteristic	Maximum Specification
Mo (Molybdenum)	0.1 ppb
Na (Sodium)	1 ppb
Nb (Niobium)	0.1 ppb
Nd (Neodymium)	0.1 ppb
Ni (Nickel)	0.5 ppb
Pb (Lead)	0.1 ppb
Pd (Palladium)	Information Only
Pr (Praseodymium)	0.1 ppb
Pt (Platinum)	Information Only
Rb (Rubidium)	0.1 ppb
Re (Rhenium)	0.1 ppb
Rh (Rhodium)	0.1 ppb
Ru (Ruthenium)	0.1 ppb
Sb (Antimony)	0.5 ppb
Sc (Scandium)	0.1 ppb
Se (Selenium)	1 ppb
Sm (Samarium)	0.1 ppb
Sn (Tin)	1 ppb
Sr (Strontium)	0.1 ppb
Ta (Tantalum)	Information Only
Tb (Terbium)	0.1 ppb
Te (Tellurium)	0.1 ppb
Th (Thorium)	0.1 ppb
Ti (Titanium)	0.5 ppb
Tl (Thallium)	0.1 ppb
Tm (Thulium)	0.1 ppb
U (Uranium)	0.1 ppb
V (Vanadium)	0.5 ppb
W (Tungsten)	0.1 ppb
Y (Yttrium)	0.1 ppb
Yb (Ytterbium)	0.1 ppb
Zn (Zinc)	1 ppb
Zr (Zirconium)	0.1 ppb

Signature

This document has been produced electronically and is valid without a signature.

Signed on behalf of VWR:



Greg Henson
QA & RA Manager