

Certificate of Analysis

Product Name:

Hydrochloric acid PurTrace for Trace analysis, ≥30%

Product No.: PSR42849
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 7647-01-0
Molecular Formula: HCl
Molecular Weight: 36.46 g/mol
Date of Mfg.: NA
Date of Exp.: NA

| Test | Specification | Result |
|------------------|-------------------------------|-------------------------|
| Appearance | Colorless Liquid | Colorless Liquid |
| Assay | ≥ 30.0 % | 31.4 % |
| Density (D 20/4) | 1.140-1.160 g/cm ³ | 1.154 g/cm ³ |
| Silver (Ag) | NMT 0.5 ppb | < 0.5 ppb |
| Aluminium (Al) | NMT 5 ppb | < 5 ppb |
| Arsenic (As) | NMT 1 ppb | < 1 ppb |
| Gold (Au) | NMT 1 ppb | < 1 ppb |
| Barium (Ba) | NMT 0.5 ppb | < 0.5 ppb |
| Beryllium (Be) | NMT 0.5 ppb | < 0.5 ppb |
| Bismuth (Bi) | NMT 0.5 ppb | < 0.5 ppb |
| Calcium (Ca) | NMT 10 ppb | < 10 ppb |
| Cadmium (Cd) | NMT 0.5 ppb | < 0.5 ppb |
| Cobalt (Co) | NMT 0.5 ppb | < 0.5 ppb |
| Chromium (Cr) | NMT 1 ppb | < 1 ppb |
| Cesium (Cs) | NMT 0.5 ppb | < 0.5 ppb |
| Copper (Cu) | NMT 1 ppb | < 1 ppb |
| Iron (Fe) | NMT 5 ppb | < 5 ppb |
| Gallium (Ga) | NMT 0.5 ppb | < 0.5 ppb |
| Mercury (Hg) | NMT 0.5 ppb | < 0.5 ppb |
| Indium (In) | NMT 0.5 ppb | < 0.5 ppb |
| Iridium (Ir) | NMT 0.5 ppb | < 0.5 ppb |
| Potassium (K) | max. 10 ppb | < 10 ppb |
| Lithium (Li) | NMT 0.5 ppb | < 0.5 ppb |
| Magnesium (Mg) | NMT 1 ppb | < 1 ppb |
| Manganese (Mn) | NMT 0.5 ppb | < 0.5 ppb |
| Molybdenum (Mo) | NMT 0.5 ppb | < 0.5 ppb |
| Sodium (Na) | NMT 10 ppb | < 10 ppb |

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.

For queries on this COA, please contact our technical team at technical@pure-synth.com

64683 Einhausen Marie-Curie-StraBe. 3, Germany

Website: www.pure-synth.com

Phone: 1800-8908-260

Email: info@pure-synth.com

| | | |
|------------------------------|---------------|-------------|
| Nickel (Ni) | NMT 1 ppb | < 1 ppb |
| Lead (Pb) | NMT 0.5 ppb | < 0.5 ppb |
| Palladium (Pd) | NMT 1 ppb | < 1 ppb |
| Platinum (Pt) | NMT 0.5 ppb | < 0.5 ppb |
| Rubidium (Rb) | NMT 0.5 ppb | < 0.5 ppb |
| Rhodium (Rh) | NMT 0.5 ppb | < 0.5 ppb |
| Ruthenium (Ru) | NMT 0.5 ppb | < 0.5 ppb |
| Antimony (Sb) | NMT 0.5 ppb | < 0.5 ppb |
| Selenium (Se) | NMT 0.001 ppm | < 0.001 ppm |
| Tin (Sn) | NMT 1 ppb | < 1 ppb |
| Strontium (Sr) | NMT 0.5 ppb | < 0.5 ppb |
| Titanium (Ti) | NMT 1 ppb | < 1 ppb |
| Thallium (Tl) | NMT 0.5 ppb | < 0.5 ppb |
| Uran (U) | NMT 0.5 ppb | < 0.5 ppb |
| Vanadium (V) | NMT 1 ppb | < 1 ppb |
| Zinc (Zn) | NMT 1 ppb | < 1 ppb |
| Zirconium (Zr) | NMT 0.5 ppb | < 0.5 ppb |
| Bromide (Br) | NMT 10000 ppb | < 10000 ppb |
| Free chlorine (Cl) | NMT 0.1 ppm | < 0.1 ppm |
| Nitrate (NO ₃) | NMT 1000 ppb | < 1000 ppb |
| Phosphate (PO ₄) | NMT 10 ppb | < 10 ppb |
| Sulfite (SO ₃) | NMT 1 ppm | < 1 ppm |
| Sulfate (SO ₄) | NMT 100 ppb | < 100 ppb |

Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Storage Condition:

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

This is electronically-generated copy & is valid without a signature

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