

CERTIFICATE OF ANALYSIS

PRODUCT NAME : HYDROCHLORIC ACID 37 % FOR TRACE METAL ANALYSIS

CAS No : 7647-01-0
Mol. Formula : HCl
Mol. WT : 36.46
Date of analysis : 09/08/23

Product code : 23545
Batch No : MCR-29020
Mfd. : Aug. 2023
Exp. : July 2028

S.R	Test	Specification	Observation
1	Description	A clear colourless fuming liquid.	A clear colourless fuming liquid.
2	Assay (acidimetric)	36.5 – 37.5%	37.15%
3	Colour scale	10 APHA max	< 10 APHA
4	Density (at 20°C)	1.183 – 1.189 g/mL	1.187 g/mL
5	Residue on evaporation	100000 ppb max	< 100000 ppb
6	Ammonium(NH₄)	1000 ppb max	< 1000 ppb
7	Bromide (Br)	50000 ppb max	< 50000 ppb
8	Free chlorine(Cl)	500 ppb max	< 500 ppb
9	Phosphate (PO₄)	500 ppb max	< 500 ppb
10	Sulphate (SO₄)	1000 ppb max	< 1000 ppb
11	Sulphite(as SO₃)	500 ppb max	< 500 ppb
12	Aluminium (Al)	200 ppb max	< 200 ppb
13	Arsenic (As)	100 ppb max	< 100 ppb
14	Barium (Ba)	100 ppb max	< 100 ppb
15	Beryllium (Be)	20 ppb max	< 20 ppb
16	Bismuth (Bi)	500 ppb max	< 500 ppb
17	Cadmium (Cd)	5 ppb max	< 5 ppb
18	Calcium (Ca)	1000 ppb max	< 1000 ppb
19	Chromium (Cr)	200 ppb max	< 200 ppb
20	Cobalt (Co)	10 ppb max	< 10 ppb
21	Copper (Cu)	10 ppb max	< 10 ppb

MOLYCHEM H.Q. : Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)

Tel. : +91 22 4066 8111 • Email: info@molychem.net • Web: www.molychem.net

Reg. Office : 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai - 400 002 (INDIA)

Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

23	Heavy metal (as Pb)	100 ppb max	< 100 ppb
24	Iron (Fe)	200 ppb max	< 200 ppb
25	Lead (Pb)	50 ppb max	< 50 ppb
26	Lithium (Li)	20 ppb max	< 20 ppb
27	Manganese (Mn)	50 ppb max	< 50 ppb
28	Magnesium (Mg)	300 ppb max	< 300 ppb
29	Mercury (Hg)	100 ppb max	< 100 ppb
30	Molybdenum (Mo)	50 ppb max	< 50 ppb
31	Nickel (Ni)	200 ppb max	< 200 ppb
32	Potassium (K)	200 ppb max	< 200 ppb
33	Sodium (Na)	400 ppb max	< 400 ppb
34	Strontium (Sr)	20 ppb max	< 20 ppb
35	Thallium (Tl)	50 ppb max	< 50 ppb
36	Titanium (Ti)	50 ppb max	< 50 ppb
37	Vanadium (V)	20 ppb max	< 20 ppb
38	Zinc (Zn)	50 ppb max	< 50 ppb
39	Zirconium(Zr)	50 ppb max	< 50 ppb

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]

[QC Incharge]

CHEMIST
(Priti)

HEAD-QUALITY ASSURANCE
(G.G.Salian)

Note: Computer generated image requires no sign.

MOLYCHEM H.Q. : Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)

Tel. : +91 22 4066 8111• Email: info@molychem.net • Web: www.molychem.net

Reg. Office : 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai - 400 002 (INDIA)

Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.