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 : 20/06/26

Product code : 23545
Batch No : MCR-31654-02
Mfd. : June 2026
Exp. : May 2031

S.R	Test	Specification	Observation
1	**Description**	A clear colourless fuming liquid.	A clear colourless fuming liquid.
2	**Assay (acidimetric)**	36.5 – 37.5%	37.35%
3	**Colour scale**	10 APHA max	< 10 APHA
4	**Density (at 20^0C)**	1.183 – 1.189 g/mL	1.187 g/mL
5	**Residue on evaporation**	100000 ppb max	< 100000 ppb
6	**Ammonium(NH_4)**	1000 ppb max	< 1000 ppb
7	**Bromide (Br)**	50000 ppb max	< 50000 ppb
8	**Free chlorine(cl)**	500 ppb max	< 500 ppb
9	**Phosphate (PO_4)**	500 ppb max	< 500 ppb
10	**Sulphate (SO_4)**	1000 ppb max	< 1000 ppb
11	**Sulphite(as SO_3)**	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

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]

CHEMIST
(Priti)

MOLYCHEM INDIA LLP BADLAPUR B-9

[QC Incharge]

HEAD-QUALITY ASSURANCE
(G.G.Salian)