

# Product Specification

Standard number : EL-004-24  
Issue number : CBJ21  
Code number : 51045147

Name : IPA

(Other name : Isopropyl alcohol, 2-Propanol )  
Grade : UHP  
Volume : 3 L  
Packaging : -

3-2-12 UCHIHIRANOMACHI, CHUO-KU,  
OSAKA 540-0037, JAPAN

HAYASHI PURE CHEMICAL IND.,LTD.

No.	Item	(unit)	Specification	Test Procedure
1	Appearance (APHA)	-	≦ 5	Visual method
2	Assay	%	≧ 99.99	Gas Chromatography
3	Specific Gravity (20/20°C)	-	0.786 ~ 0.787	Floating balance method
4	Water	%	≦ 0.01	Karl fisher titration method
5	Solubility in water	-	Does not produce turbidity	Visual method
6	Free acid (as CH <sub>3</sub> COOH)	ppm	≦ 5	Titration method
7	n-Propanol	ppm	≦ 50	Gas Chromatography
8	Chloride (Cl)	ppb	≦ 5	Ion Chromatography
9	Sulfate (SO <sub>4</sub> )	ppb	≦ 5	Ion Chromatography
10	Silver (Ag)	ppt	≦ 100	ICP-MS
11	Aluminum (Al)	ppt	≦ 100	ICP-MS
12	Arsenic (As)	ppt	≦ 100	ICP-MS
13	Gold (Au)	ppt	≦ 100	ICP-MS
14	Barium (Ba)	ppt	≦ 100	ICP-MS
15	Calcium (Ca)	ppt	≦ 100	ICP-MS
16	Cadmium (Cd)	ppt	≦ 100	ICP-MS
17	Cobalt (Co)	ppt	≦ 100	ICP-MS
18	Chromium (Cr)	ppt	≦ 100	ICP-MS
19	Cesium (Cs)	ppt	≦ 100	ICP-MS
20	Copper (Cu)	ppt	≦ 100	ICP-MS
21	Iron (Fe)	ppt	≦ 100	ICP-MS
22	Gallium (Ga)	ppt	≦ 100	ICP-MS
23	Germanium (Ge)	ppt	≦ 100	ICP-MS
24	Potassium (K)	ppt	≦ 100	ICP-MS
25	Lithium (Li)	ppt	≦ 100	ICP-MS
26	Magnesium (Mg)	ppt	≦ 100	ICP-MS
27	Manganese (Mn)	ppt	≦ 100	ICP-MS
28	Molybdenum (Mo)	ppt	≦ 100	ICP-MS
29	Sodium (Na)	ppt	≦ 100	ICP-MS
30	Nickel (Ni)	ppt	≦ 100	ICP-MS
31	Lead (Pb)	ppt	≦ 100	ICP-MS
32	Platinum (Pt)	ppt	≦ 100	ICP-MS
33	Rubidium (Rb)	ppt	≦ 100	ICP-MS
34	Antimony (Sb)	ppt	≦ 100	ICP-MS
35	Tin (Sn)	ppt	≦ 100	ICP-MS
36	Strontium (Sr)	ppt	≦ 100	ICP-MS
37	Tantalum (Ta)	ppt	≦ 100	ICP-MS
38	Titanium (Ti)	ppt	≦ 100	ICP-MS
39	Vanadium (V)	ppt	≦ 100	ICP-MS
40	Tungsten (W)	ppt	≦ 100	ICP-MS
41	Zinc (Zn)	ppt	≦ 100	ICP-MS
42	Zirconium (Zr)	ppt	≦ 100	ICP-MS

remark