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## PRODUCT SPECIFICATION

Product Description	Isopropyl Alcohol MOS Grade
Product Code	IPA110-2.5P, IPA110-25P, IPA110-25M
Synonyms	2-propanol, sec-propyl alcohol
Molecular Formula	$C_3H_8O$
Molecular Weight	60.09
CAS Number	67-63-0

TEST	UNIT	SPECIFICATION
Assay (by GC)	%	$\geq 99.5$
Titration Acid	meq/g	$\leq 0.0002$
Titration Base	meq/g	$\leq 0.0002$
Permanganate Time		Pass
Solubility in water		Pass
Water by Karl Fisher	%	$\leq 0.05$
Residue after Evaporation		$\leq 5$
Trace Impurities		
Aluminum (Al)	ppb	$\leq 50$
Arsenic and Antimony (as As)	ppb	$\leq 10$
Barium (Ba)	ppb	$\leq 20$
Beryllium (Be)	ppb	$\leq 100$
Bismuth (Bi)	ppb	$\leq 100$
Boron (B)	ppb	$\leq 10$
Cadmium (Cd)	ppb	$\leq 20$
Calcium (Ca)	ppb	$\leq 50$
Chromium (Cr)	ppb	$\leq 20$
Cobalt (Co)	ppb	$\leq 20$
Copper (Cu)	ppb	$\leq 10$
Gallium (Ga)	ppb	$\leq 50$
Germanium (Ge)	ppb	$\leq 50$
Gold (Au)	ppb	$\leq 20$
Heavy metals (as Pb)	ppb	$\leq 200$
Iron (Fe)	ppb	$\leq 50$
Lead (Pb)	ppb	$\leq 20$
Lithium (Li)	ppb	$\leq 50$
Magnesium (Mg)	ppb	$\leq 20$

Manganese (Mn)	ppb	≤ 15
Molybdenum (Mo)	ppb	≤ 100
Nickel (Ni)	ppb	≤ 10
Niobium (Nb)	ppb	≤ 100
Potassium (K)	ppb	≤ 100
Silicon (Si)	ppb	≤ 50
Silver (Ag)	ppb	≤ 20
Sodium (Na)	ppb	≤ 100
Strontium (Sr)	ppb	≤ 20
Tantalum (Ta)	ppb	≤ 100
Thallium (Tl)	ppb	≤ 10
Tin (Sn)	ppb	≤ 100
Titanium (Ti)	ppb	≤ 20
Vanadium (V)	ppb	≤ 100
Zinc (Zn)	ppb	≤ 50
Zirconium (Zr)	ppb	≤ 100

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