

Technical Data Sheet

Product Name	Ethanol A.R.		
Product #	KS-00605	CAS #	64-17-5
For laboratory use, ACS, ISO, Ph Eur.			
Specifications			
Assay	≥ 99.0%		
Identity (IR)	Conforms		
Solubility in Water	Conforms		
Color	≤ 10Hazen		
Acidity or Alkalinity	≤ 30		
Titration Acid	≤ 0.0002meq/g		
Titration Base	≤ 0.0002meq/g		
Aldehydes	≤ 0.001%		
Substances Reducing Potassium Permanganate (as O)	≤ 0.0002%		
Substances Reducing Potassium Permanganate (ACS)	Conforms		
Carbonyl Compounds (as CO)	≤ 0.003%		
Acetone (GC)	≤ 0.001%		
Ethyl Methyl Ketone (GC)	≤ 0.02%		
Isoamyl Alcohol (GC)	≤ 0.05%		
2-Propanol (GC)	≤ 0.01%		
Higher Alcohols (GC)	≤ 0.01%		
Volatile Impurities (GC) (Acetaldehyde and Acetal)	≤ 10ppm		

Volatile Impurities (GC)(Benzene)	$\leq 2\text{ppm}$
Volatile Impurities (GC)(Methanol)	$\leq 100\text{ppm}$
Volatile Impurities (GC)(Total of Other Impurities)	$\leq 300\text{ppm}$
Volatile Impurities (GC)(Disregard Limit)	$\leq 9\text{ppm}$
Nitrate (NO ₃)	$\leq 0.3\text{ppm}$
Silver (Ag)	$\leq 0.000002\%$
Aluminium (Al)	$\leq 0.00005\%$
Arsenic (As)	$\leq 0.000002\%$
Gold (Au)	$\leq 0.000002\%$
Barium (Ba)	$\leq 0.00001\%$
Beryllium(Be)	$\leq 0.000002\%$
Bismuth (Bi)	$\leq 0.000002\%$
Calcium (Ca)	$\leq 0.00005\%$
Cadmium (Cd)	$\leq 0.000005\%$
Cobalt (Co)	$\leq 0.000002\%$
Chromium (Cr)	$\leq 0.000002\%$
Chloride (Cl)	$\leq 0.3\text{ppm}$
Copper (Cu)	$\leq 0.000002\%$
Iron (Fe)	$\leq 0.00001\%$
Gallium (Ga)	$\leq 0.000002\%$
Lithium (Li)	$\leq 0.000002\%$
Magnesium (Mg)	$\leq 0.00001\%$
Manganese (Mn)	$\leq 0.000002\%$

Molybdenum (Mo)	$\leq 0.000002\%$
Nickel (Ni)	$\leq 0.000002\%$
Lead (Pb)	$\leq 0.00001\%$
Platinum (Pt)	$\leq 0.000002\%$
Antimony (Sb)	$\leq 0.000002\%$
Titanium (Ti)	$\leq 0.000002\%$
Thallium (Tl)	$\leq 0.000002\%$
Zinc (Zn)	$\leq 0.00001\%$
Zirconium (Zr)	$\leq 0.000002\%$
Nitrogen (N)	$< 0.001\%$
Phosphate (PO ₄)	$\leq 0.3\text{ppm}$
Ammonium (NH ₄)	$< 0.002\%$
Sulfate (SO ₄)	$\leq 0.3\text{ppm}$
Evaporation Residue	$\leq 0.0005\%$
Water	$\leq 0.1\%$

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