

Acetone, RCI Premium

CH ₃ COCH ₃	FW. 58.08	Density 1 L	= 0.790	Kg.
CAS-No.	67-64-1	Melting Point	- 95.4	°C
Code	RP1003	Boiling Point	56.2	°C

Specifications

(Meet A.C.S. Specifications and USP/NF)

Assay (by GC.)	99.8%	min.
Identity (IR)	Passes test	
Appearance of solution	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.2%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0005%	max.
Benzene (GC.)	2	ppm max.
Cyclohexane (residual solvent) (GC.)	0.01%	max.
Diacetone (GC.)	0.02%	max.
Ethanol (GC.)	0.01%	max.
Methanol (GC.)	0.05%	max.
Other impurity (GC.)	0.05%	max.
2-Propanol (GC.)	0.05%	max.
Related substances (GC.)	Passes test	
Acidity or alkalinity	Passes test	
Aldehydes (as formaldehyde)	0.001%	max.
Reducing substances	Passes test	
Solubility in water	Passes test	
Substances reducing permanganate (as O)	0.00025%	max.
Water-insoluble substances	Passes test	
Chloride (Cl)	0.1	ppm max.
Nitrate (NO ₃)	0.1	ppm max.
Phosphate (PO ₄)	0.1	ppm max.
Sulfate (SO ₄)	0.1	ppm max.
Aluminium (Al)	0.5	ppm max.
Antimony (Sb)	0.02	ppm max.
Arsenic (As)	0.02	ppm max.
Barium (Ba)	0.1	ppm max.
Beryllium (Be)	0.02	ppm max.
Bismuth (Bi)	0.02	ppm max.
Boron (B)	0.02	ppm max.
Cadmium (Cd)	0.05	ppm max.
Calcium (Ca)	0.5	ppm max.
Chromium (Cr)	0.02	ppm max.
Cobalt (Co)	0.02	ppm max.
Copper (Cu)	0.02	ppm max.
Gallium (Ga)	0.02	ppm max.
Germanium (Ge)	0.02	ppm max.
Gold (Au)	0.02	ppm max.
Indium (In)	0.02	ppm max.
Iron (Fe)	0.1	ppm max.
Lead (Pb)	0.1	ppm max.
Lithium (Li)	0.05	ppm max.
Magnesium (Mg)	0.1	ppm max.
Manganese (Mn)	0.02	ppm max.
Molybdenum (Mo)	0.02	ppm max.
Nickel (Ni)	0.02	ppm max.
Silver (Ag)	0.02	ppm max.
Thallium (Tl)	0.02	ppm max.
Tin (Sn)	0.1	ppm max.
Titanium (Ti)	0.02	ppm max.
Vanadium (V)	0.02	ppm max.
Zinc (Zn)	0.1	ppm max.
Zirconium (Zr)	0.02	ppm max.

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