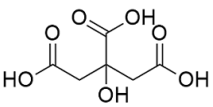


50% Citric Acid

Technical Data Sheet

Chemical Name	Citric Acid 50%	
CAS No.	77-92-9	
Chemical Formula	C ₆ H ₈ O ₇	
IUPAC Name	2-Hydroxypropane-1,2,3-tricarboxylic acid	
Formula Weight	192.12	
Density	1.7 g/mL	
Phase	Clear Amber Liquid	
Appearance	Clear	
Description	Electronic Grade	
pH	< 1	
Standard Container	55-gallon plastic drum, 275-gallon IBC tote	
Shelf Life	One Year	
Application	High purity citric acid for use in electronic material manufacturing or cleaning applications.	

Parameters	Typical Result	Unit	Method
Aluminum (Al)	< 1.0	PPB	ICP-MS
Boron (B)	< 1.0	PPB	ICP-MS
Calcium (Ca)	< 5.0	PPB	ICP-MS
Chromium (Cr)	< 1.0	PPB	ICP-MS
Cobalt (Co)	< 1.0	PPB	ICP-MS
Copper (Cu)	< 1.0	PPB	ICP-MS
Iron (Fe)	< 5.0	PPB	ICP-MS
Magnesium (Mg)	< 5.0	PPB	ICP-MS
Manganese (Mn)	< 1.0	PPB	ICP-MS
Nickel (Ni)	< 1.0	PPB	ICP-MS
Potassium (K)	< 5.0	PPB	ICP-MS
Sodium (Na)	< 100.0	PPB	ICP-MS
Titanium (Ti)	< 1.0	PPB	ICP-MS
Zirconium (Zr)	< 1.0	PPB	ICP-MS
Zinc (Zn)	< 5.0	PPB	ICP-MS
Chloride (Cl ⁻)	< 1.0	PPM	Potentiometric Titration
Assay	50.0 %	% wt.	Potentiometric Titration