

Product Specification Sheet  
**ACETONE**  
**MEETS REAGENT ACS, USP/NF, BP, EP GRADE MONOGRAPHS**

Catalog Number: zp3290000BP, zp3290000EP

Product Specifications	Monograph	Limits	Typical Result
Assay, min (corrected for water)	ACS	99.5%	99.9%
Assay, min (anhydrous basis)	NF	99.0%	99.7%
Identification Test A (IR)	NF	Conforms to Infrared Spectra	Pass
Identification Test B (GC)	NF	Conforms to Reference Chromatogram	Pass
Identification A.	EP	Complies with Test for Relative Density	Pass
Identification B.	EP	An intense red color is produced, and becomes violet.	Pass
Identification C.	EP	A Greenish-Blue color is produced	Pass
Appearance	ACS	Clear	Clear
Specific Gravity @ 25°C	NF	≤ 0.789	0.7870
Readily Oxidizable Substances	NF	To Pass	Pass
Color (APHA), max	ACS	10	< 10
Solubility in Water	ACS	To Pass Test	Pass
Residue After Evaporation, max	ACS BP/EP	0.001% 50 ppm	<0.001% < 10 ppm
Nonvolatile Residue	NF	40 ppm	< 10 ppm
Titration Acid, max	ACS	0.0003 meq/g	0.00024 meq/g
Titration Base, max	ACS	0.0006 meq/g	0.00016 meq/g
Aldehyde (as HCHO), max	ACS	0.002%	< 0.002%
IPA, max	ACS	0.05%	< 0.0001%
Methanol, max	ACS	0.05%	<0.04%
Substances Reducing KMnO <sub>4</sub>	ACS	To Pass Test	Pass
Water, max	ACS / NF	0.5%	0.20%
Water, w/v, max	BP / EP	0.3%	0.20%
Appearance of Solution	BP / EP	Clear	Clear
Relative Density (apparent) @ 20°C	BP / EP	0.790 – 0.793	0.7917
Reducing Substances	BP / EP	To Pass Test	Pass
Acidity or Alkalinity	BP / EP	To Pass Test	Pass
Matter Insoluble in Water	BP / EP	To Pass Test	Pass
Related Substances (by GC)			
Impurity A (Methanol)	BP / EP	Not more than 0.05% (v/v)	<0.04%
Impurity B (Isopropanol)		Not More than 0.05% (v/v)	<0.0001%
Impurity C (Benzene)		Not More than 2ppm (v/v)	<1ppm
Any other impurity		Not More than 0.05% (v/v)	<0.01%

Form Acetone-ACS-USP/NF-BP-EP, # 501, Rev. 3.0, 06/16, KAD

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.