

## PRODUCT SPECIFICATION SHEET

### Acetone

Reagent ACS, USP/NF, BP, EP Grade

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