

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

Catalog Number: zp329000BP, zp329000EP

| Product Specifications | Monograph | Limits | Typical Result |
|---------------------------------------|-----------|---|----------------|
| Assay by GC, min | ACS | 99.9% | 99.99% |
| Assay | NF | Pass | 99.99% |
| 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 Test | Pass |
| Color (APHA), max | ACS | 10 | < 10 |
| Solubility in Water | ACS | To Pass Test | Pass |
| Residue After Evaporation, max | ACS | 0.001% | < 0.001% |
| Nonvolatile Residue | BP/EP | 50 ppm | < 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 ₄ | ACS | To Pass Test | Pass |
| Water, max | ACS / NF | 0.5% | 0.20% |
| Water, w/w, max | EP / EP | 0.3% | 0.20% |
| Appearance of Solution | BP / EP | Clear | Clear |
| Relative Density (apparent) @ 20°C | EP / EP | 0.790 – 0.793 | 0.7917 |
| Reducing Substances | EP / EP | To Pass Test | Pass |
| Acidity or Alkalinity | EP / EP | To Pass Test | Pass |
| Matter Insoluble in Water | EP / EP | To Pass Test | Pass |
| Related Substances (by GC) | | | |
| Impurity A (Methanol) | EP / 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. 2.7, 4/10, EF

Disclaimer: For Industrial, Pharmaceutical, Flavour & Fragrance or Lab Use. Not intended for use as an active substance in Food or Drug. Not to be considered a Medical Device. Not intended for use as a Disinfectant as defined by the EPA. The appropriate use of this product is the sole responsibility of the user. (Rev. # disclaimer only, rev 3.5, 11/06, EP)