



PRODUCT SPECIFICATION SHEET
METHANOL

Meets USP/NF/EP/BP GRADE Monographs

Catalog # zp3390000EP-Size Code*, zp3390000BP-Size Code*

Available in the following sizes:

*Refer to Master Price List – Individual package sizes have unique size codes

| PRODUCT SPECIFICATIONS | MONOGRAPH | LIMITS | TYPICAL RESULTS |
|--|-----------|--|--------------------------------------|
| Assay (GC), min, corrected for water | NF | 99.9% | 99.99% |
| Water | NF/EP/BP | NMT 0.1% | 0.03% |
| Relative Density | EP/BP | 0.791 – 0.793 | 0.7924 |
| Appearance | EP/BP | Clear Colorless Liquid | Pass |
| Identification A (Infrared Absorption) | NF | To Pass | Pass |
| Identification B (Infrared Absorption) | EP/BP | To Pass | Pass |
| Identification A (Refractive Index) | EP/BP | 1.328-1.330 | 1.329 |
| Identification B (GC Analysis) | NF | To Pass | |
| Acidity | NF | NMT 0.45mL 0.02N NaOH required | Pass |
| Alkalinity (as NH ₄) | NF | NMT 0.20mL 0.02N H ₂ SO ₄ required (3 ppm max) | <3ppm |
| Acidity or alkalinity | EP/BP | NMT 0.90mL 0.01M NaOH required | Pass |
| Readily Carbonizable Substances | NF | To Pass | Pass |
| Acetone & Aldehydes | NF | 0.003% | < 0.0003% |
| Readily Oxidizable Substances | NF | To Pass | Pass |
| Non -Volatile Residue | NF | NMT 2mg (0.001% w/w) | 0.0002% |
| Ultraviolet absorption | EP/BP | 230nm 0.15 max. 250nm 0.05 max. 270nm 0.02 max. 290nm 0.01 max. Absorption curve between 230nm – 290nm is smooth | 0.12 0.03 0.01 0.00 Pass |
| Reducing Substances | EP/BP | To Pass | Pass |
| Residue on Evaporation | EP/BP | NMT 10ppm | <10ppm |
| Impurity A – Benzene | EP/BP | NMT 2ppm | <1ppm |
| Impurity B - Ethanol | EP/BP | Lot Analysis | <20ppm |
| Impurity C - Acetone | EP/BP | Lot Analysis | <1ppm |
| Related Substances | EP/BP | Any Impurity NMT 0.1% Total Impurities NMT 0.3% Any Impurity <50ppm to be discarded | Pass |

Form Methanol, Reagent USP/NF/EP/BP, # 101, Rev. 1.5, 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.