



PRODUCT SPECIFICATIONS SHEET

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|--------------|--------------------------|
| Product Name | Methanol |
| Grade | ACS/USP/NF/HPLC-UV Grade |
| Catalog # | 33900HPLC |

| TEST | MONO-GRAPH | SPECIFICATION | TYPICAL RESULT |
|--------------------------------------|------------|---------------------------------|----------------|
| Assay (corrected for water) | ACS | 99.8% min | 99.97 % |
| Assay | NF | NLT 99.5% | 100.00 % |
| Substances Darkened by Sulfuric Acid | ACS | To Pass Test | Pass |
| Readily Oxidizable Substances | NF | To Pass Test | Pass |
| Substances Reducing Permanganate | ACS | To Pass Test | Pass |
| Readily Carbonizable Substances | NF | To Pass Test | Pass |
| Solubility in Water | ACS | To Pass Test | Pass |
| Color (APHA) | ACS | 10 max | 1 |
| Water | ACS | NMT 0.1% | 0.02 % |
| Water | NF | NMT 0.1% | 0.02 % |
| Residue on Evaporation | ACS | 0.001% max | 0.000 % |
| Non -Volatile Residue | NF | NMT 2mg (0.001% w/w) | 0 mg |
| Carbonyl Compounds - Acetone | ACS | 0.001% max | None Detected |
| Acetone and Aldehydes (as Acetone) | NF | NMT 0.003% | LT 0.003% |
| Carbonyl Compounds - Formaldehyde | ACS | 0.001% max | LT 0.001% |
| Carbonyl Compounds - Acetaldehyde | ACS | 0.001% max | LT 0.001% |
| Titration Acid | ACS | 0.0003 meq/g max. | 0.0002 meq/g |
| Acidity | NF | NMT 0.45mL 0.020N NaOH required | 0.10 ml |



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| TEST | MONO-GRAPH | SPECIFICATION | TYPICAL RESULT |
|--|------------|---|----------------|
| Titration Base | ACS | 0.0002 meq/g max. | 0.0001 meq/g |
| Alkalinity (as NH ₄) | NF | NMT 0.20mL 0.020N H ₂ SO ₄ required (3 ppm max) | 0.05 ml |
| Identification A (Infrared Absorption) | NF | To Pass Test | Pass |
| Identification B (GC Analysis) | NF | To Pass Test | Pass |
| UV Absorption @205nm | ACS | 1.00 max. | 0.95 |
| UV Absorption @210nm | ACS | 0.80 max. | 0.53 |
| UV Absorption @220nm | ACS | 0.40 max. | 0.25 |
| UV Absorption @230nm | ACS | 0.20 max. | 0.11 |
| UV Absorption @240nm | ACS | 0.10 max. | 0.05 |
| UV Absorption @260nm | ACS | 0.04 max. | 0.01 |
| UV Absorption @280nm-400nm | ACS | 0.01 max. | 0.00 |

This product is manufactured for Routine HPLC Analysis and meets the requirements for General Use, ACS Specifications.

This product is for further commercial manufacturing, laboratory, or research use, and may be used as 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.