



**ChemPure* Brand
Chemicals**

...Pure Quality

Certificate of Analysis

Product: ChemPure Reagent Alcohol

Catalog Number: CP-T9085

Lot Number: K21D14CP

Date of Manufacture: 04/15/2021

Expiration Date: 04/14/2024

Grain Derived Pure 200 Proof Ethanol (Anhydrous)
Denatured with Methanol & Isopropyl

| TEST | SPECIFICATION | RESULT |
|---------------------------------------|-------------------------|---------------|
| Assay (by GC): | Ethanol | 89.5 -91.5% |
| | Methanol | 4.0-5.0% |
| | Isopropanol | 4.5-5.5% |
| Assay: | SDA3A 200 | 94.0-96.0% |
| | Isopropanol | 4.0-6.0% |
| Water | 0.2% max. | 0.02% |
| Residue After Evaporation | 10 ppm max. | <10 ppm |
| Specific Gravity | 0.7902 - 0.7912@ 20.0-c | 0.7904 |
| Color (Pt-Co) | 10 Max. | <10 |
| Appearance | Clear Liquid | Pass |
| Odor | Characteristic | Pass |
| Identification | To Pass Test | Pass |
| Titration Acid | 0.0003 meq/g | <0.0003 meq/g |
| Titration Base | 0.0002 meq/g | <0.0002 meq/g |
| Substances Reducing KMnO ₄ | To Pass Test | Pass |
| Solubility in Water | To Pass Test | Pass |
| Refractive Index | 1.3580-1.3610@ 25•c | 1.3585 |

Important. It is certified that the above is a true copy of the actual lot analysis. To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, nothing herein shall constitute any express or implied warranty of merchantability or fitness for a particular purpose. The minimum shelf life is based on current knowledge and holds only for proper storage conditions in the original containers. We herewith confirm that the delivery is effected according to the technical conditions agreed. Particular properties of the products or the suitability for a particular area of application is not assured. It is the customer's responsibility to inspect and test the products in order to satisfy itself as to the suitability for the customer's particular purpose. This information is not intended to be all inclusive as to the manner and conditions of use, handling, storage, disposal, and other factors that may involve other or additional legal, environmental, safety or performance considerations, and CHEMPURE BRAND CHEMICALS assumes no liability whatsoever for the use of or reliance upon this information. Our technical personnel will be happy to respond to questions. Safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, recommendations to infringe any existing patents or to violate any Federal, State, Local or foreign laws.

This lot of Reagent Alcohol 200 proof complies with the ACS monograph, all of the above mentioned specifications and specifications and the requirements of 27 CFR Part 20. This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources. This product is for further commercial manufacturing, laboratory and 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 of disinfectant.

This document was produced electronically and is valid without a signature. ChemPure Quality Management.

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