

Benzyl Alcohol

Grade: NF/FCC

Catalog number: ZH303NF/FCC

| Test | Mono-graph | Specification | Typical Result |
|--|------------|---|----------------|
| Identification A - Infrared Spectroscopy | NF | Conforms to Reference Spectrum | Pass |
| Identification - Infrared Absorption | FCC | Conforms to Reference Spectrum | Pass |
| Assay | NF | 98.0% - 100.5% C ₇ H ₈ O | 99.98 % |
| Assay | FCC | NLT 99.0% of C ₇ H ₈ O | 99.98 % |
| Impurities - Fats and Fixed Oils / Peroxide Value | NF | NMT 5 | 1 |
| Impurities: Residue on Evaporation | NF | NMT 0.05% | 0.00 % |
| Organic Impurities - Benzaldehyde | NF | 0.15% max. | 0.02 % |
| Organic Impurities - Cyclohexylmethanol | NF | 0.10% max. | 0.00 % |
| Organic Impurities - Peaks with RT < C ₇ H ₈ O | NF | 0.04% max. | 0.00 % |
| Organic Impurities - Peaks with RT > C ₇ H ₈ O | NF | 0.30% max. | 0.00 % |
| Aldehydes | FCC | NMT 0.2% | 0.00 % |
| Acidity | NF | NMT 1 mL of 0.1M NaOH solution is required | 0.3 ml |
| Clarity of Solution | NF | Test Solution shows same clarity as that of water, or its opalescence is not more pronounced than that of Reference suspension 1 | Pass |
| Color of Solution | NF | The Test solution has the color of water | Pass |
| Description | FCC | Colorless liquid with sharp burning taste and faint aromatic odor. Miscible with alcohol, chloroform, ether; 1 mL dissolves in 30 mL of water | Pass |
| Refractive Index | NF | 1.538 - 1.541 @ 20°C | 1.541 |
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| Specific Gravity | FCC | 1.042 - 1.047 @ 25°C | 1.044 |
| Chlorinated Compounds | FCC | To Pass Test | Pass |
| Distillation Range | FCC | NLT 95% distills between 202.5-206.5°C | Pass |

Certification and Compliance Statements

This product complies with all of the current requirements listed in the National Formulary and Food Chemical Codex monographs.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Benzyl alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in Benzyl Alcohol. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467> and ICH Q3C Impurities: Residual Solvents.

Greenfield products are for further commercial manufacturing, laboratory use, or research. Greenfield is not registered with the United States Food and Drug Administration (FDA) as a drug manufacturing facility. Greenfield products are not registered with the FDA as active pharmaceutical ingredients in drug manufacturing.

Appropriate/legal use of all products are the responsibility of the user and subject to applicable local laws and regulations.