

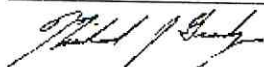
Certificate of Analysis

Product Name:

Clove bud oil - natural, FCC, FG

Product Number: W232300
Batch Number: SHBM5724
Brand: ALDRICH
CAS Number: 8000-34-8
MDL Number: MFCD00130815
Quality Release Date: 01 SEP 2020
Expiration Date: AUG 2025


Test	Specification	Result
Appearance (Color)	Pale Yellow to Light Amber-Brown	Light Yellow
Appearance (Form)	Liquid	Liquid
Refractive index at 20 ° C	1.527 - 1.535	1.534
Infrared Spectrum	Conforms to Structure	Conforms
Assay	≥ 85.0 %	88.0 %
(Phenols by Volume)		
Solubility (Turbidity)	Clear	Clear
1ml/2ml 70% ethanol; clear solution		
(may be cloudy upon dilution to 10 mls)		
Angular Rotation	-1.50 - 0.00 °	-0.89 °
100 mm tube Neat		
Specific Gravity	1.038 - 1.060	1.045
@ 25 Degrees Celsius		
Phenols	Pass	Pass
(FCC Misc.)		
Arsenic (As)	≤ 3 ppm	< 1 ppm
Cadmium (Cd)	≤ 1 ppm	< 1 ppm
Mercury (Hg)	≤ 1 ppm	< 1 ppm
Lead (Pb)	≤ 10 ppm	< 1 ppm
Expiration Date Period		
5 Years		



Michael Grady, Manager

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





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Certificate of Analysis

Product Number: W232300
Batch Number: SHBM5724

Quality Control
Milwaukee, WI US

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