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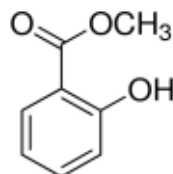
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

Wintergreen oil - China origin

**Product Number:** W311308  
**Batch Number:** MKBZ2600V  
**Brand:** ALDRICH  
**CAS Number:** 90045-28-6  
**MDL Number:** MFCD00002214  
**Quality Release Date:** 14 JUN 2016  
**Expiration Date:** APR 2021



Test	Specification	Result
Appearance (Color)	Colorless, Yellow or Red	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Refractive index at 20 °C	1.535 - 1.538	1.537
Purity (GC)	≥ 98.0 %	99.7 %
Solubility (Turbidity)	Pass	Pass
1ml/7ml, 70% Ethanol		
Specific Gravity	1.176 - 1.182	1.179
Acid Value	≤ 1.0 ml	0.1 ml
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  
 Quality Control  
 Milwaukee, WI US

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.