

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

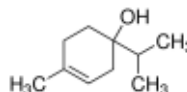
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

4-Carvomenthenol - ≥95%, FCC, FG

**Product Number:** W224847  
**Batch Number:** MKCB5953  
**Brand:** ALDRICH  
**CAS Number:** 562-74-3  
**Formula:** C<sub>10</sub>H<sub>18</sub>O  
**Formula Weight:** 154.25 g/mol  
**Quality Release Date:** 24 OCT 2016  
**Expiration Date:** OCT 2021



Test	Specification	Result
Appearance (Color)	Colorless to Pale Yellow	Colorless
Appearance (Form)	Liquid	Liquid
Refractive index at 20 °C	1.476 - 1.480	1.479
Infrared Spectrum	Conforms to Structure	Conforms
Color Test (APHA)	Results	Pass
Purity (GC)	≥ 95.0 %	99.1 %
Specific Gravity	0.928 - 0.934	0.931
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.