

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaldrich.com](http://www.sigmaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:  
Pentacene – sublimed grade, ≥99.9% trace metals basis

**Product Number:** 684848  
**CAS Number:** 135-48-8  
**MDL:** MFCD00003710  
**Formula:** C<sub>22</sub>H<sub>14</sub>  
**Formula Weight:** 278.35 g/mol



### TEST

### Specification

Appearance (Color)	Purple to Very Dark Purple and Dark Blue to Very Dark Blue and Black
Appearance (Form)	Powder
Melting point by DSC	
Infrared spectrum	Conforms to Structure
Thermogravimetric Analysis 0.5 wt.% Loss	
Carbon	≥ 93.5 %
Purity	Conforms
> = 99.9% Based On Trace Metals Analysis	
Trace Metal Analysis	≤ 1000.0 ppm

Specification: PRD.1.ZQ5.10000037725

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](http://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.