

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

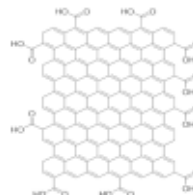
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Graphene oxide - sheets

Product Number: 763713
Batch Number: MKCF4166
Brand: ALDRICH
Formula Weight: 4,239.48 g/mol
Quality Release Date: 29 NOV 2017



| Test | Specification | Result |
|-------------------------------|-----------------------|----------|
| Appearance (Color) | Black | Black |
| Appearance (Form) | Powder or Flakes | Flakes |
| Infrared Spectrum | Conforms to Structure | Conforms |
| X-Ray Diffraction | Conforms to Structure | Conforms |
| Carbon | 42.0 - 52.0 % | 44.2 % |
| Sulfur | ≤ 3.0 % | 2.0 % |
| Water (by Karl Fischer) | | 13.9 % |
| Specification: Report Results | | |

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.