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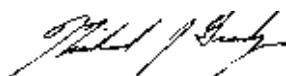
## Certificate of Analysis

Product Name:

Graphene - powder, electrical conductivity  $>10^{10}<sup>3</sup>$  S/m

**Product Number:** 900561  
**Batch Number:** MKCC2632  
**Brand:** ALDRICH  
**CAS Number:** 1034343-98-0  
**Quality Release Date:** 20 JAN 2017

Test	Specification	Result
Appearance (Color)	Grey to Very Dark Grey	Very Dark Grey
Appearance (Form)	Powder	Powder
X-Ray Diffraction	Conforms to Structure	Conforms
Carbon (C)	$\geq 95 \%$	$> 95 \%$
by X-ray Fluorescence		
Oxygen (O)	$\leq 4 \%$	$< 4 \%$
by X-ray Fluorescence		
Surface Area	$\geq 500$ m <sup>2</sup> /g	$> 500$ m <sup>2</sup> /g
Electrical Conductivity	$\geq 1000$	10000
S/m		



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.