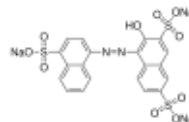


## Certificate of Analysis

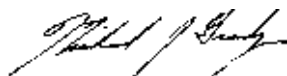
Product Name:

Amaranth - Dye content 85-95 %

**Product Number:** A1016  
**Batch Number:** SHBM6672  
**Brand:** SIGMA  
**CAS Number:** 915-67-3  
**MDL Number:** MFCD00004076  
**Formula Weight:** 604.47 g/mol  
**Quality Release Date:** 02 NOV 2020  
**Recommended Retest Date:** SEP 2026



Test	Specification	Result
Appearance (Color)	Brown to Red-Brown	Very Dark Red
Appearance (Form)	Powder	Powder
Solubility (Color)	Red to Red-Brown	Dark Red-Brown
Solubility (Turbidity)	Clear	Clear
10 mg/mL, H <sub>2</sub> O		
Proton NMR Spectrum	Conforms to Structure	Conforms
Loss on Drying	≤ 9.4 %	2.5 %
3.5 mol/mol		
Nitrogen (Dry Basis)	3.9 - 4.6 %	4.0 %
% Dye content	85 - 95 %	87 %
Dry Basis		



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](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.

