



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-215811  
Lot Number: SAMPLE  
Product Name: Rhodanile blue  
CAS Number: 14969-56-3  
Molecular Formula:  $C_{48}H_{48}ClN_5O_3$   
Molecular Weight: 778.38

| Test                               | Specification                                      | Result       |
|------------------------------------|--|--------------|
| Appearance                         | Very dark purple, blue or black powder or crystals | Black powder |
| Identification (Infrared Spectrum) | Consistent with structure                          | Complies     |
| Absorption Excitation (1)          | 634 - 640 nm (in water)                            | 637 nm       |
| Extinction Coefficient (1)         | $\geq 40000$                                       | 40576        |
| Absorption Excitation (2)          | 552 - 558 nm                                       | 554 nm       |
| Extinction Coefficient (2)         | $\geq 90000.00$                                    | 102563.00    |
| Carbon Content                     | 53.9 - 90.8%                                       | 61.0%        |
| Nitrogen Content                   | 6.5 - 11.0%  | 6.9%         |

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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