



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-238916
Lot Number: SAMPLE
Product Name: 4-Nitro-o-phenylenediamine
CAS Number: 99-56-9
Molecular Formula: $C_6H_7N_3O_2$
Molecular Weight: 153.14

| Test | Specification | Result |
|------------------------------------|--|--|
| Appearance | Orange to red powder or crystals | Dark red powder |
| Identification (Infrared Spectrum) | Consistent with structure | Complies |
| Purity (TLC) | $\geq 98\%$ | $> 98\%$ |
| Solution (Color) | Orange to dark red brown at 50 mg/ml in ethanol: 1N HCl (3: 2) | Dark red-brown at 50 mg/ml in ethanol: 1N HCl (3: 2) |
| Solution (Turbidity) | Clear to turbid at 50 mg/ml in ethanol: 1N HCl (3: 2) | Slightly hazy at 50 mg/ml in ethanol: 1N HCl (3: 2) |
| Carbon Content | 45.9 - 48.2% | 46.7% |
| Nitrogen Content | 26.7 - 28.1% | 27.4% |

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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