



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-215576
Lot Number: SAMPLE
Product Name: Nitrazine Yellow
CAS Number: 5423-07-4
Molecular Formula: $C_{16}H_8N_4Na_2O_{11}S_2$
Molecular Weight: 542.36

Test	Specification	Result
Appearance	Brown to very dark brown powder	Brown powder
Visual Transition Interval	pH 5.0 yellow - pH 7.2 purple	Complies
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (HPLC)	$\geq 90.0\%$	95.3%
Solubility	Clear and yellow-brown to red-brown to brown solution at 1 mg/ml in H ₂ O	Clear and very dark brown solution at 1 mg/ml in H ₂ O
Absorption Excitation	587 - 591 nm (c = 0.01 g/l; 0.1N NaOH)	589 nm
Extinction Coefficient	≥ 35000	38793
Carbon Content	29.7 - 41.1%	34.2%
Nitrogen Content	8.6 - 12.0%	9.8%

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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