



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-206215
Lot Number: SAMPLE
Product Name: 1,1'-Diethyl-2,2'-carbocyanine iodide
CAS Number: 605-91-4
Molecular Formula: $C_{25}H_{25}IN_2$
Molecular Weight: 480.38

Test	Specification	Result
Appearance	Dark green to black powder, crystals or crystalline powder	Dark green powder
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (TLC)	$\geq 97\%$	$> 99\%$
Solubility	Dark blue solution at 10 mg/ml(1%) in ethanol	Complies
Absorption Excitation (1)	560 - 566 nm	563 nm
Extinction Coefficient (1)	≥ 80000	83577
Absorption Excitation (2)	602 - 608 nm	607 nm
Extinction Coefficient (2)	≥ 180000	189644
Carbon Content	60.3 - 64.7 %	62.1 %
Nitrogen Content	5.5 - 6.1 %	5.7 %

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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