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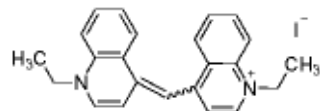
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

1,1'-Diethyl-4,4'-cyanine iodide

Product Number: 291331
Lot Number: MKBJ3595V
Brand: ALDRICH
CAS Number: 4727-49-5
MDL Number: MFCD00151338
Formula: C₂₃H₂₃IN₂
Formula Weight: 454.35 g/mol
Quality Release Date: 01 NOV 2011



Test	Specification	Result
Appearance (Color)	Green to Very Dark Green	Very Dark Green
Appearance (Form)	Powder or Crystals	Powder
Infrared spectrum	Conforms to Structure	Conforms
Wavelength	588 - 596 nm	593 nm
$c = 0.003$ g/l; Ethanol		
Extinction Coefficient	≥ 75000	86383
Carbon	58.7 - 62.9 %	61.1 %
Nitrogen	5.9 - 6.4 %	6.2 %

Jamie Gleason, Manager
Quality Control
Milwaukee, Wisconsin 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. 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.