

LDS 798

Synonym: 4-[4-[4-(dimethylamino)phenyl]-1,3-butadieny]-1-ethyl quinolinium perchlorate; Styryl 11

Catalog No.: 07980

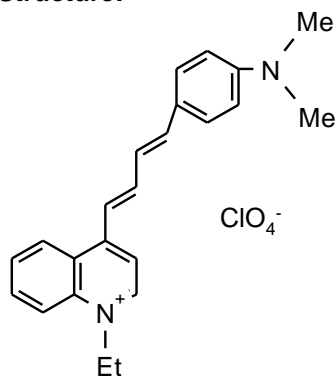
CAS No.: 92479-59-9

Chemical Formula: C₂₃H₂₅N₂.ClO₄

MW: 428.9

Appearance: Dark maroon crystals, no odor

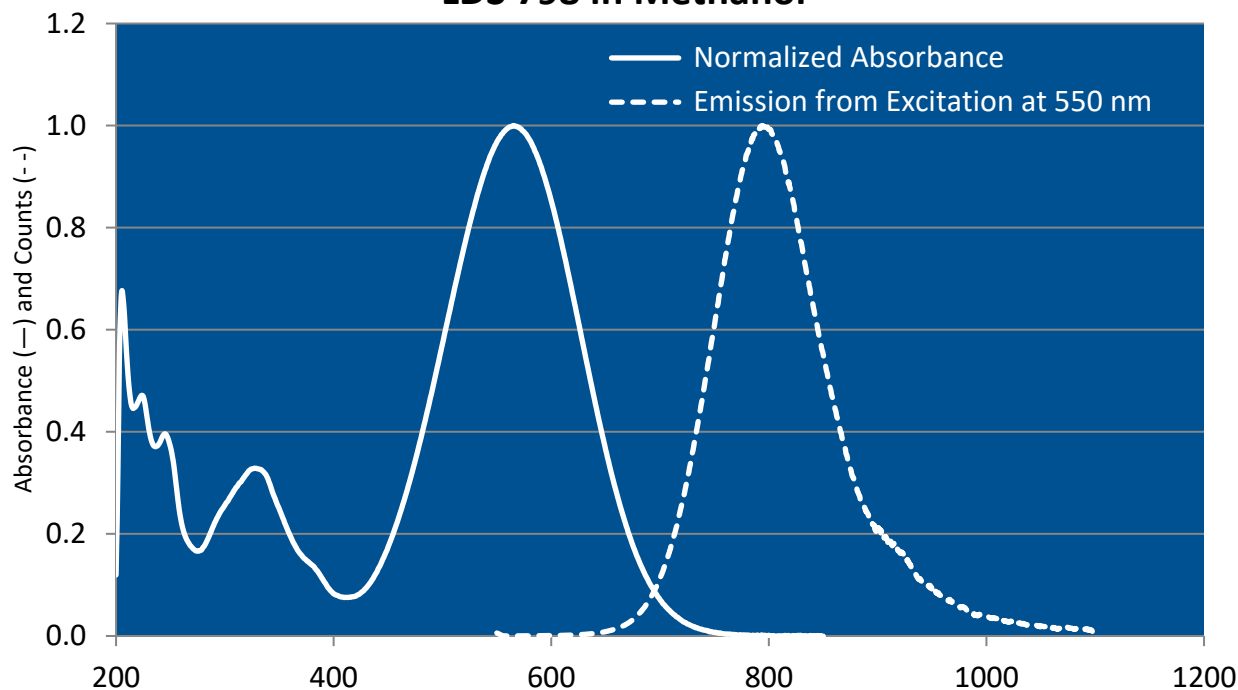
Structure:



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
785	758-826	Nd:YAG(532) ²³⁹	Ethanol	3.3 x 10 ⁻⁴	558 ^m	766 ^m
798	765-845	Nd:YAG(532) ⁵⁷	Methanol			
798		Nd:YAG(m-l) ¹⁶⁰	PC/EG	1.33 x 10 ⁻³		
795	768-850	Ar ¹²⁷	PC/EG,15/85	1.2 x 10 ⁻³		

EG = Ethylene Glycol; m = Methanol; PC = Propylene Carbonate

LDS 798 in Methanol



The information presented above is believed to be accurate but is not a specification. The customer is fully responsible for determining the suitability of this product for use in their application. Exciton, Inc. does not represent that the information is sufficient or complete for any specific application.

Quantum Yields and Lifetimes

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
566	798	0.14	Methanol		M-5

REFERENCES:

57. Quanta-Ray, Note: Quanta-Ray is now incorporated as a part of Spectra-Physics, 1250 W. Middlefield Road, Mountain View, CA 94039
127. a. Cw Operation of Laser Dyes Styryl-9 and Styryl-11, J. Hoffnagle, L. Ph. Roesch, N. Schlumpf and A. Weis, *Optics Commun.*, 42, 267 (1982); b. K. Kato, see Reference 5 in 127 a ; c. K. Kato, unpublished results
160. G. Olbright, private commun., 1988; Generation of Tunable Near-Infrared Amplified Femtosecond Laser Pulses and Time-Correlated White-Light Continuum, G.R. Olbright and G.R. Hadley, *J. Opt. Soc. Am. B*, 6(7), 1363 (1989)
239. P. Jauernik, private commun., Sirah Laser- und Plasmatechnik, 2003.
- M-5. Investigations on the Use of Laser Dyes as Quantum Counters for Obtaining Corrected Fluorescence Spectra in the Near Infrared, J.X. Duggan, J. DiCesare, and J.F. Williams, *New Directions in Molecular Luminescence*, ASTM STP 822. D. Eastwood, Ed., American Society for Testing and Materials, 1983, pp. 112-126, <https://doi.org/10.1520/STP31871S>

For a current list of biology, biological stain, or biochemistry references for LDS 798 from PubMed, click on the following link:

[LDS 798 or Styryl 11](#)