



LDS 698*

Synonym: [2-[4-[4-(dimethylamino)phenyl]-1,3-butadienyl]-1-ethylpyridinium monoperchlorate; Pyridine 1

Catalog No.: 06980

CAS No.: 87004-02-2

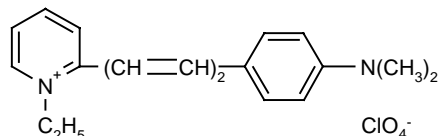
Chemical Formula: C₁₉H₂₃ClO₄

Molecular Weight: 378.85

Appearance: Purple needles

Molar Absorptivity (in methanol): 4.23 x 10⁴ L mole⁻¹ cm⁻¹

Structure:



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
690	645-730	Nd:YAG(532) ⁵	Ethanol	1.5 x 10 ⁻³ (osc), 5.8 x 10 ⁻⁵ (amp)	476 ^m	668 ^m
692	659-732	Nd:YAG(532) ¹¹⁰	Methanol	3 x 10 ⁻⁴		
692	667-720	Nd:YAG(532) ²³⁹	Ethanol	6.6 x 10 ⁻⁴		
693	661-740	Nd:YAG(532) ⁵³	Methanol	2 x 10 ⁻⁴ (osc), 5 x 10 ⁻⁵ (amp)		
693	664-755	Nd:YAG(355) ¹¹⁰	Methanol	1 x 10 ⁻³		
693	664-722	Nd:YAG(355) ²³⁹	Ethanol	1.2 x 10 ⁻³		
695	658-738	Nd:YAG(side-p,532) ⁵⁷	Methanol	6 x 10 ⁻⁴ (osc), 3 x 10 ⁻⁴ (amp)		
695	658-738	Nd:YAG(end-p,532) ⁵⁷	Methanol	6 x 10 ⁻⁴ (osc), 7.7 x 10 ⁻⁵ (amp)		
695	660-730	Nd:YAG(d,m-l,QS) ¹⁶⁸				
709	688-740	Nd:YAG(532) ¹¹³	DMSO	6.6 x 10 ⁻⁴ (osc), 3.2 x 10 ⁻⁴ (amp)		
690	678-728	N ₂ (337) ¹⁸³	Methanol	11.2mg/20ml		
718	675-750	N ₂ (337) ¹⁴⁴	DMSO			
707	670-778	Ar ^{127b}	PC/EG			
	673-733	Ar(m-l,514) ¹³⁶	PC/EG,15/85	1.8 x 10 ⁻³		
726	688-808	Ar(458-514) ¹⁷	PC/EG,15/85	1.2 x 10 ⁻³		
684	661-724	Cu(511,578) ¹⁷⁵	Methanol	3.1 x 10 ⁻³		

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

* Equivalent species may be provided or substituted

REFERENCES:

- Laser Photonics, Inc., 12351 Research Parkway, Orlando, FL 32826, formerly, Molelectron Corporation and Cooper LaserSonic, Inc.
- Spectra-Physics, 1250 W. Middlefield Road, Mountain View, CA 94039
- Continuum, 3150 Central Expressway, Santa Clara, CA 95051, formerly, Quantel International
- Quanta-Ray, Note: Quanta-Ray is now incorporated as a part of Spectra-Physics, 1250 W. Middlefield Road, Mountain View, CA 94039
- Lumonics Inc., 105 Schneider Road, Kanata, (Ottawa), Ontario, Canada K2K 1Y3



PO Box 31126
Dayton, OH 45437
Tel: 937.252.2989 Fax: 937.258.3937
E-mail: info@exciton.com
www.exciton.com

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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
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175. CVL-Pumped Dye Laser For Spectroscopic Application, M. Broyer, J. Chevalyere, G. Delacretaz and L. Wöste, *App. Phys. B*, 35, 31 (1984)
183. Thermo Laser Science, 26 Landsdowne Street, Cambridge, MA 02139
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For a current list of biology, biological stain, or biochemistry references for LDS 698 from PubMed, click on the following link:

[LDS 698 or Pyridine 1](#)