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LDS 750

Synonym: 2-[4-[4-(dimethylamino)phenyl]-1,3-butadienyl]-3-ethyl-naphtho[2,1-d]thiazolium perchlorate; Styryl 7

Catalog No.: 07505

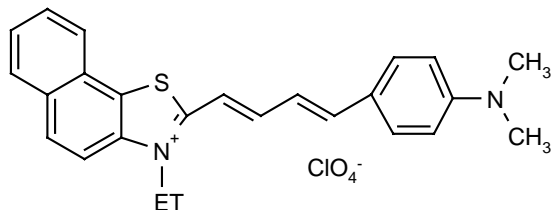
CAS No.: 89872-07-1

MW: 484

Chemical Formula: C₂₅H₂₅N₂S.ClO₄

Appearance: Green crystalline solid

Structure:



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	FI λ -max
718	699-743	Nd:YAG(532) ¹¹⁰	Methanol	3×10^{-4}	572	704 ^m
719	693-757	Nd:YAG(532) ⁵³	Methanol	8×10^{-5} (osc), 3×10^{-5} (amp)		
720	716-725	Nd:YAG(532)→F548(544) ¹⁴⁸	Methanol	3.4×10^{-4} (osc), 1.5×10^{-4} (amp)		
722	698-743	Nd:YAG(side-p,532) ⁵⁷	Methanol	2.4×10^{-4} (osc), 1.2×10^{-4} (amp)		
722	698-743	Nd:YAG(end-p,532) ⁵⁷	Methanol	2.4×10^{-4} (osc), 3.1×10^{-5} (amp)		
753	720-790	Nd:YAG(532) ⁸³	EG			

EG = ethylene glycol; m = methanol

REFERENCES:

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57. Quanta-Ray, Note: Quanta-Ray is now incorporated as a part of Spectra-Physics, 1250 W. Middlefield Road, Mountain View, CA 94039
83. High-Efficiency, High-Power Difference-Frequency Generation at 2-4 μ m in LiNbO₃, K. Kato, *IEEE J. Quantum Electron.*, QE16(10), 1017 (1980)
110. Lumonics Inc., 105 Schneider Road, Kanata, (Ottawa), Ontario, Canada K2K 1Y3
148. Dye Laser Radiation in the 605-725nm Region Pumped by a 544nm Fluorescein Dye Laser, K.D. Bonin and T.J. McIlrath, *Applied Optics*, 23(17), 2854 (1984)

For a current list of biology, biological stain, or biochemistry references for LDS 750 from PubMed, click on the following link:

[LDS 750](#) (zero references as of May 2006)