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DNDTPC-P

Synonym: 3-ethyl-2-[[[3-[3-[3-[(3-ethylnaphtho[2,1-d]thiazol-2(3H)-ylidene)methyl]-5,5-dimethyl-2-cyclohexen-1-ylidene]-1-propenyl]-5,5-dimethyl-2-cyclohexen-1-ylidene]methyl]-naphtho[2,1-d]thiazolium perchlorate

Catalog No.: 11400

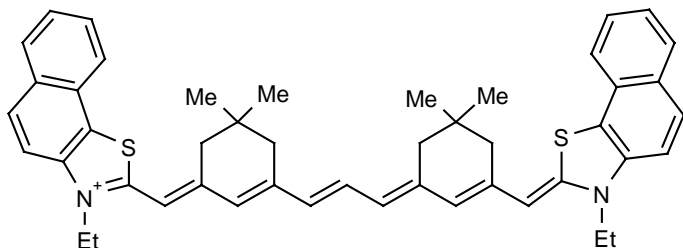
CAS No.: 65767-29-5

MW: 805.49

Chemical Formula: C₄₇H₄₉N₂S₂.ClO₄

Appearance: Dark crystalline powder

Structure:



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max
	1084-1125	Nd:YAG(1064) ^{106,107}	DMSO	1.5 x 10 ⁻⁴	~1060
1110	1090-1150	Nd:YAG(1064) ^{191,244}	DMSO	6.2 x 10 ⁻⁴ (osc/preamp), 1.2 x 10 ⁻⁴ (amp)	
1172	1151-1198	Nd:YAG(1064) ¹⁰⁴	DMSO	1 x 10 ⁻⁴	

DMSO = dimethylsulfoxide

REFERENCES:

104. Nd:YAG Laser-Pumped Infrared Dye Laser, K. Kato, *IEEE J. Quantum Electron.*, QE14, 7 (1978)
106. A 13 MW Peak Power Dye Laser Tunable in the 1.1 μ m Range, A. Ferrario, *Optics Commun.*, 30(1), 83 (1979)
107. A Picosecond Dye Laser Tunable in the 1.1 μ m Region, A Ferrario, *Optics Commun.*, 30(1), 85 (1979)
191. Ralph Page, private commun., 1986; Quanta-Ray PDL-1 dye laser pumped by Quanta-Ray DCR-1 Nd:YAG laser; concentration oscillator 500mg/liter, amplifier 100mg/liter in DMSO; 10% conversion efficiency at 1.11 μ m.
244. R. Hochstrasser and G. Holtom, private commun., 1981; Output and tuning range for DNDTPC similar to DNXTPC. Use of a continuous purge of prepurified nitrogen and black bottles increased shelf life to several weeks instead of a few hours for DMSO solutions.

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

[DNDTPC Perchlorate](#) (zero references to "dndtpc" in PubMed as of May 2006)