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LDS 722

Synonym: 4-[4-[4-(dimethylamino)phenyl]-1,3-butadienyl]-1-ethyl-pyridinium perchlorate; Pyridine 2

Catalog No.: 07220

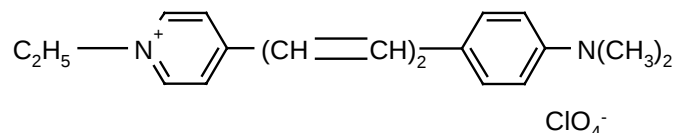
CAS No.: 89846-21-9

Chemical Formula: C₁₉H₂₃N₂.ClO₄

MW: 378.85

Appearance: Purple crystals

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	Fl λ -max
715	686-795	Nd:YAG(532) ^{127c}	Methanol		494 ^m	702 ^m
718	691-751	Nd:YAG(532) ²³⁹	Ethanol	6.6 x 10 ⁻⁴		
722	685-760	Nd:YAG(532) ⁵⁷	Methanol			
724		Nd:YAG(532)→F548(544) ¹⁴⁸	Methanol	3.4 x 10 ⁻⁴ (osc), 1.3 x 10 ⁻⁴ (amp)		
735	700-780	N ₂ (DFDL) ¹⁶²	DMSO	7 x 10 ⁻³		
713	680-795	Ar(458-514) ²⁰⁶	PC/EG,2/8	4 x 10 ^{-3*}		
725	690-770	Ar(Blue/Green,SF) ⁶⁸	PC/EG	2.7 x 10 ⁻³		
726	688-775	Ar(Blue/Green,bb) ⁶⁸	PC/EG			
745	685-800	Ar(Blue/Green,SF) ⁶⁸	PC/EG	2.7 x 10 ⁻³		
747	682-810	Ar(Blue/Green,bb) ⁶⁸	PC/EG			
722	687-755	Cu(511,578) ¹⁷⁵	Methanol	2.6 x 10 ⁻³		

* This represents a maximum value. Concentration should be adjusted to 80-85% absorption of the pump light.

m = methanol, DMSO = dimethylsulfoxide, EG = ethylene glycol, PC = propylene carbonate

REFERENCES:

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206. Coherent Inc., 3210 Porter Dr., Palo Alto, CA 94304; (599 Composite Tuning Curves, 1992; The concentration shown represents a maximum value. The final concentration should be adjusted to obtain 80-85% absorption of the pump light.)
239. P. Jauernik, private commun., Sirah Laser- und Plasmatechnik, 2003.

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