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Rhodamine 3B Perchlorate

Synonym: N-[6-(diethylamino)-9-[2-(ethoxycarbonyl)phenyl]-3H-xanthen-3-ylidene]-N-ethyl-ethanaminium perchlorate

Catalog No.: 22168

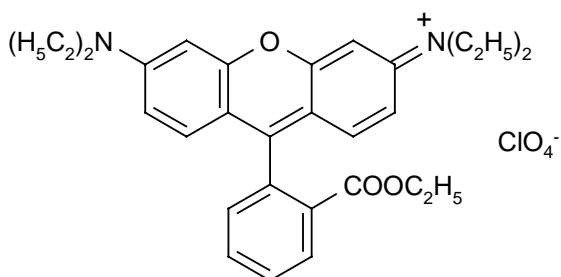
CAS No.: 23857-69-4

MW: 571.07

Chemical Formula: C₃₀H₃₅N₂O₃.ClO₄

Appearance: Red green crystalline solid

Structure:



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
595	530-620	XeCl(308) ²⁵⁴	EtOH	1.29 x 10 ⁻⁴	556 ^m	574 ^e
615	(bb)	FL ₁ , Nd:YAG(532) ²⁵⁵	IAA		555 ^{IAA}	580 ^{IAA}
610	(bb)	FL ²⁷	HFIP		550 ^{HFIP}	
610	(bb)	FL ²⁷	TFE		550 ^{TFE}	
620	(bb)	FL ²⁷	EtOH		555 ^e	
630	(bb)	FL ²⁷	DMSO		566 ^s	

DMSO = dimethylsulfoxide; e = ethanol; EtOH = ethanol; HFIP = hexafluoroisopropanol; IAA = isoamyl alcohol; m = methanol; s = dimethylsulfoxide; TFE = trifluoroethanol

REFERENCES:

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255. Peculiarities of Laser-Light Generation in Organic-Dye Solutions, A.N. Rubinov and V.A. Mostovnikov, *Bull. Acad. Sci. USSR, Phys Ser.* 32, 1348 (1968)

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