



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

Rhodamine 19 Perchlorate

Synonym: 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-benzoic acid, perchlorate

Catalog No.: 05751

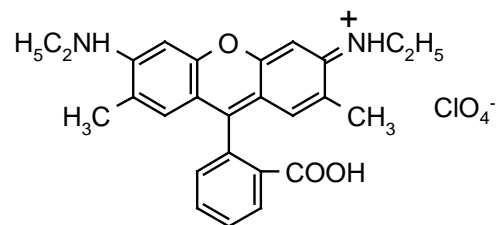
CAS No.: 62669-66-3

Chemical Formula: C₂₆H₂₇N₂O₇Cl

MW: 514.96

Appearance: Red crystals

Structure:



Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	FI λ -max
562	552-582	Nd:YAG(355) ¹⁰⁹	Ethanol	4.1 x 10 ⁻⁴	528 ^{e,a}	543 ^{e,a}
567	556-586	Nd:YAG(532) ²⁴³	Methanol	4.3 x 10 ⁻⁴	518 ^{e,b}	
575		FL ²⁷	Ethanol ^b			
585		FL ²⁷	Ethanol ^a			

a = acidic; b = basic; e = ethanol

REFERENCES:

27. What's Ahead in Laser Dyes, K.H. Drexhage, *Laser Focus*, 9(3), 35 (1973)
109. Tuning Ranges of 355 nm Pumped Dyes from 410-715 nm, D.M. Guthals and J.W. Nibler, *Optics Commun.*, 29(3), 322 (1979)
243. *Lambdachrome Laser Dyes*, U. Brackmann, 2nd ed., 1994

For a current list of biology, biological stain, or biochemistry references for Rhodamine 19 Perchlorate from PubMed, click on the following link:

[Rhodamine 19](#) (zero references in PubMed as of May 2006)

Note that Rhodamine 19 is the perchloric acid salt of the zwitterion Rhodamine 575