

Rhodamine 575

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

Catalog No.: 05750

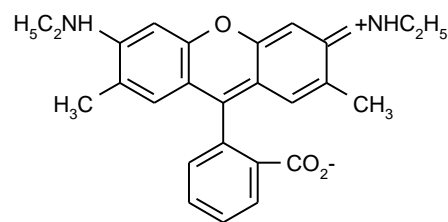
CAS No.: 25152-49-2

Chemical Formula: C₂₆H₂₆N₂O₃

MW: 414.49

Appearance: Red crystalline powder

Structure:

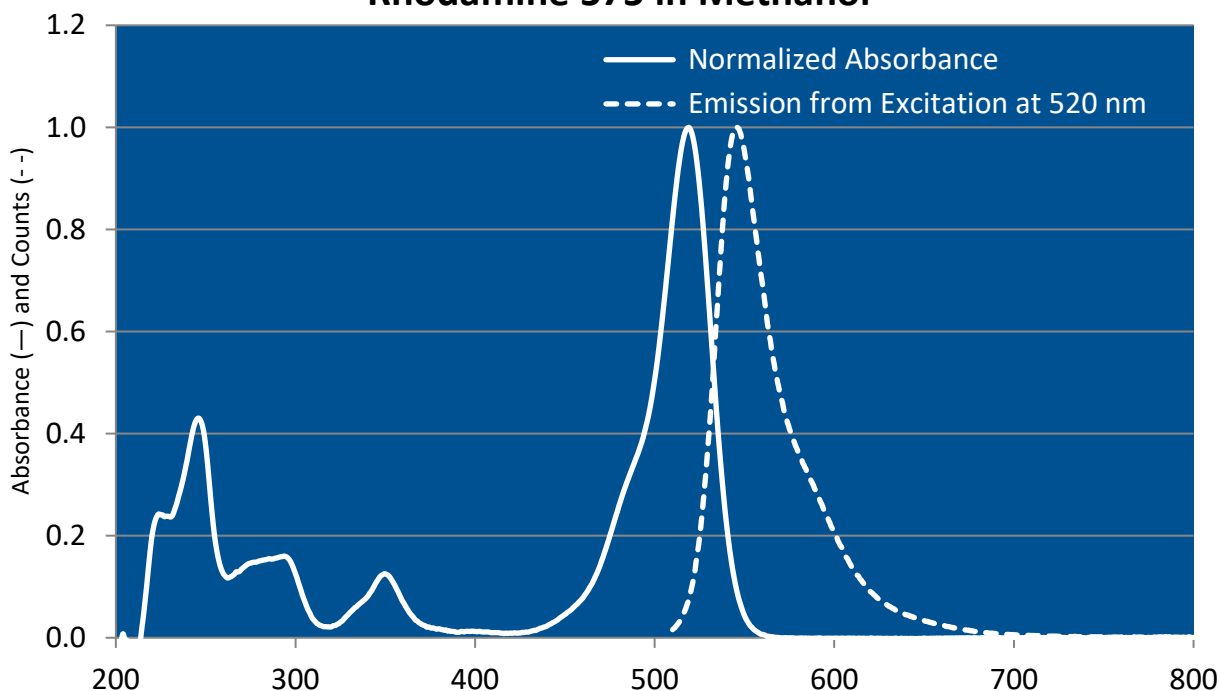


Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
575		FL ²⁷	Ethanol(basic)		518 ^m	555 ^m
577	550-608	FL ⁶⁹	Methanol	4 x 10 ⁻⁵	518(b) ^e	
577	563-602	FL ³	Ethanol	1 x 10 ⁻⁴		
585		FL ²⁷	Ethanol(acidic)			
590	566-610	FL ¹²	MeOH/H ₂ O(basic), 1/1	1.1 x 10 ⁻⁴		
551	543-570	Nd:YAG(532) ⁵⁷	Methanol	2.8 x 10 ⁻⁴ (osc), 4.1 x 10 ⁻⁵ (amp)		
562	552-582	Nd:YAG(355) ¹⁰⁹	Ethanol	4 x 10 ⁻⁴		
580	560-618	Nd:YAG(532,m-l) ¹⁶⁷	EG/BzOH, 3/1	2.4 x 10 ⁻³		

MeOH/H₂O = methanol/water, EG/BzOH = ethylene glycol/benzyl alcohol, m = methanol, e = ethanol

Rhodamine 575 in Methanol



The information presented above is believed to be accurate but is not a specification. The customer is fully responsible for determining the suitability of this product for use in their application. Exciton, Inc. does not represent that the information is sufficient or complete for any specific application.

REFERENCES:

3. Phase-R Corporation, Box G-2 Old Bay Rd., New Durham, NH 03855
12. Chromatix, 560 Oak Meade Parkway, Sunnyvale, CA 94086
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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
69. Candela Laser Corporation, 530 Boston Post Road, Wayland, MA 01778-1833
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)
167. D. Demmer, U. of Toronto, private commun., 1988

For a current list of biology, biological stain, or biochemistry references for Rhodamine 575 from PubMed, click on the following link:

[Rhodamine 575](#)