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RHODAMINE 560

Synonym: 2-(6-amino-3-imino-3H-xanthen-9-yl)-benzoic acid, monohydrochloride; 2-(6-amino-3-imino-3H-xanthen-9-yl)-benzoic acid, monochloride or perchlorate; Rhodamine 110

Catalog No.: 05600 (chloride); 05601 (perchlorate)

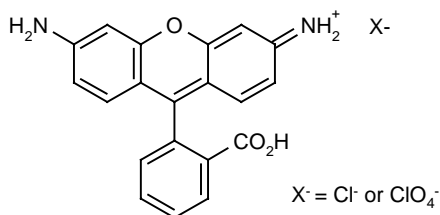
CAS No.: 13558-31-1 (05600); Not available for the perchlorate

Chemical Formula: C₂₀H₁₄N₂O₃.HCl (05600); C₂₀H₁₄N₂O₃.HClO₄ (05601)

MW: 366.80 (05600); 430.80 (05601)

Appearance: Red crystalline solid (05600); Brick red crystalline solid (05601)

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
554	530-580	FL ⁶⁹	Methanol	4 x 10 ⁻⁵	506 ^m	532 ^e
560		FL ²⁷	Ethanol(basic)			
565	544-589	FL ³	Methanol	5 x 10 ⁻⁵		
567	546-587	FL ³	Ethanol	5 x 10 ⁻⁵		
570		FL ²⁷	Ethanol(acidic)			
555	542-578	XeCl(308) ¹¹⁰	Methanol	3 x 10 ⁻³		
	555-580	Nd:YAG(532) ¹²¹	Ethanol			
563	541-583	Nd:YAG(532) ⁵³	Methanol			
570	550-590	N ₂ (337) ¹⁸³	Methanol	52mg/20ml		
540	529-585	Ar(Blue/Green) ¹²³	LO/EG,3/1 + COT			
567	535-600	Ar(458-514) ²⁰⁶	EG/MeOH,19/1	2 x 10 ^{-3*}		
569	533-600	Ar or Kr(Blue/green) ⁶⁸	EG	80% pump absorption		
570	540-600	Ar(458,514) ¹⁷	EG	1.25 x 10 ⁻³		
572	536-602	Ar(cw) ¹⁴	EG			
541	529-570	Cu(511) ¹⁵³	Methanol	2.7 x 10 ⁻⁴		
550	528-574	Cu(511) ¹⁷⁵	Methanol	2.5 x 10 ⁻⁴		

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

LO = Ammonyx LO; EG=Ethylene Glycol; MeOH = methanol; COT = cyclooctatetraene; e=ethanol; m=methanol



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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.)

For a current list of biology, biological stain, or biochemistry references for Rhodamine 560 from PubMed, click on the following link:

[Rhodamine 560 or Rhodamine 110](#) (all references in PubMed use the name Rhodamine 110)