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FLUORESCEIN 548

Synonym: 2',7'-dichloro-3',6'-dihydroxy-spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one; Fluorescein 27

Catalog No.: 05480

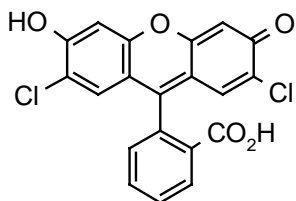
CAS No.: 76-54-0

Chemical Formula: C₂₀H₁₀Cl₂O₅

MW: 401.20

Appearance: Pale yellow crystals

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	FI λ -max
553	540-587	XeCl(308) ¹¹⁴	MeOH/H ₂ O/LO, 80/15/5	3.5 x 10 ⁻³	512(b) ^e	526 ^e
546	540-576	Nd:YAG(532) ⁵⁷	Methanol + base (NaOH 200mg/l)	1.6 x 10 ⁻³ (osc), 8.7 x 10 ⁻⁴ (amp)		
550	536-567	Nd:YAG(532) ¹⁶¹	Ethanol(basic)	2.7 x 10 ⁻⁴		
550	541-571	Nd:YAG(532) ²³⁹	EtOH + H ₂ O	1 x 10 ⁻³		
558	546-589	N ₂ (337) ¹¹⁴	EtOH/H ₂ O/LO, 80/15/5	2.5 x 10 ⁻³		

MeOH/H₂O/LO = methanol/water/Ammonyx LO, NaOH = sodium hydroxide, EtOH/H₂O/LO = ethanol/water/Ammonyx LO,
e = ethanol

REFERENCES:

57. Quanta-Ray, Note: Quanta-Ray is now incorporated as a part of Spectra-Physics, 1250 W. Middlefield Road, Mountain View, CA 94039
114. Optimization of Spectral Coverage in an Eight-Cell Oscillator-Amplifier Dye Laser Pumped at 308nm, F. Bos, *Appl. Optics*, 20, 3553 (1981)
161. Generation of Tunable Narrow-Bandwidth VUV Radiation by Anti-Stokes SRS in H₂, H. Schomburg, H.F. Döbele and B. Rückle, *Appl. Phys. B*, 30, 131 (1983)
239. P. Jauernik, private commun., Sirah Laser- und Plasmatechnik, 2003.

For a current list of biology, biological stain, or biochemistry references for Fluorescein 548 from PubMed, click on the following link:

[Fluorescein 548 or Fluorescein 27](#)