

FLUORESC EIN 548

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

Catalog No.: 05480

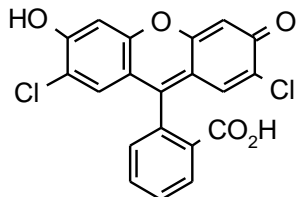
CAS No.: 76-54-0

Chemical Formula: C₂₀H₁₀Cl₂O₅

MW: 401.20

Appearance: Pale yellow crystals

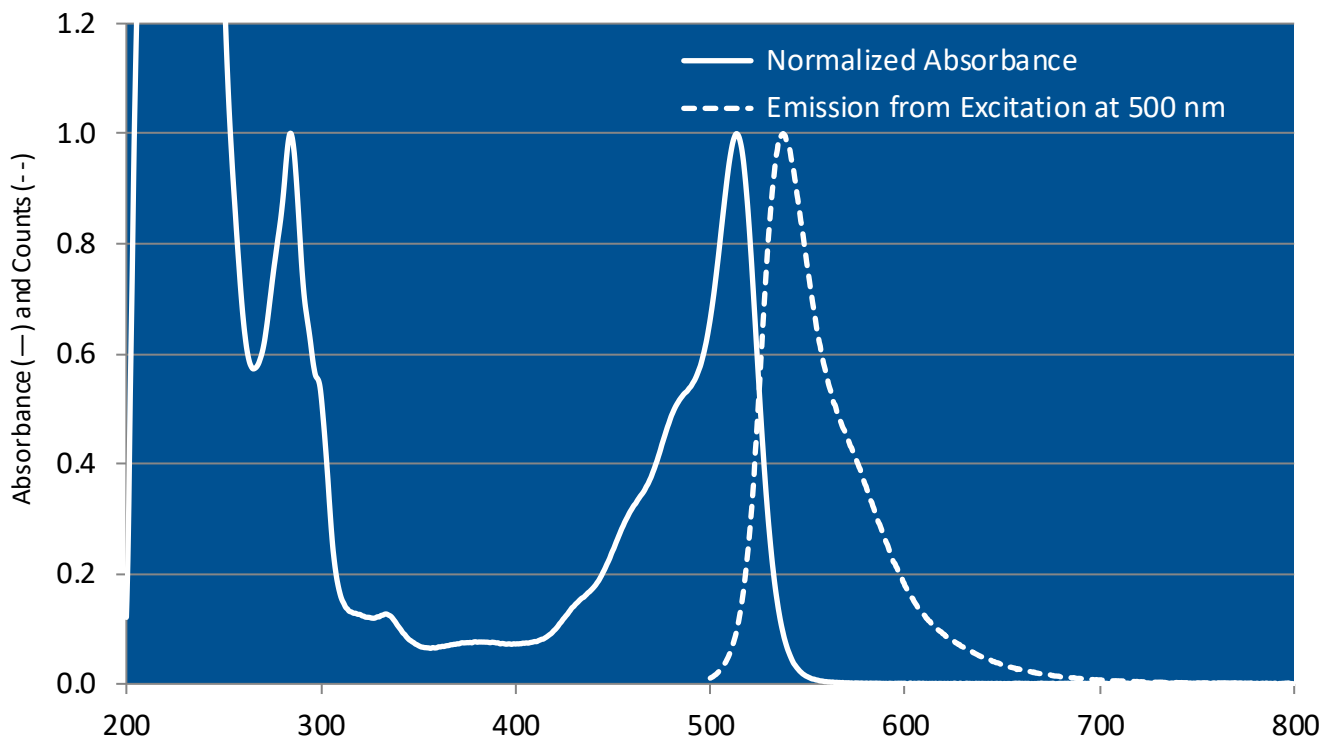
Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl 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

Fluorescein 548 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.

Quantum Yields and Lifetimes

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
512			Ethanol	4	C-3

REFERENCES:

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239. P. Jauernik, private commun., Sirah Laser- und Plasmatechnik, 2003.

C-3. Photoquenching Parameters for Commonly Used Laser Dyes, S. Speiser and N. Shakkour, *Appl. Phys. B* 38, 191 (1985), <https://doi.org/10.1007/BF00697483>



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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](#)