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DISODIUM FLUORESCEIN

Synonym: 3',6'-dihydroxy-spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, disodium salt; Uranin

Catalog No.: 05520

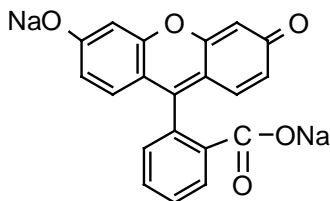
CAS No.: 518-47-8

Chemical Formula: C₂₀H₁₂O₅.2Na

MW: 412.31

Appearance: Orange-red, crystalline powder

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
550		XeCl(308) ¹¹²	Ethanol	4 x 10 ⁻³	501 ^e	531 ^e
550	536-568	Nd:YAG(355) ¹⁰⁹	EtOH/H ₂ O, 1/1	5 x 10 ⁻³		
538	530-565	N ₂ (337) ⁸⁴	Ethanol(basic)	2 x 10 ⁻³		
550	500-580	N ₂ (337) ⁸⁴	Ethanol(acidic)	3.7 x 10 ⁻³		
555	525-575	N ₂ (337) ¹⁸³	Methanol	3.3 x 10 ⁻³		
552	537-580	Ar ¹⁴	EG + COT	3 x 10 ⁻³		
552	538-573	Ar(458,514) ¹⁷	EG	2.7 x 10 ⁻³		
560	536-585	Ar ⁶⁸	MeOH/EG, 1/7.5	80% pump absorption		

EtOH/H₂O=ethanol/water, EG=ethylene glycol, COT=cyclooctatetraene, MeOH/EG=methanol/ethylene glycol, e= ethanol

REFERENCES:

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- Coherent Inc., 3210 Porter Dr., Palo Alto, CA 94304
- Solvation Effects on the Tunability of a Fluorescein Dye Laser, T. Govindanunny and B.M. Sivaram, *Optics Commun.*, 32(3), 425 (1980)
- Tuning Ranges of 355 nm Pumped Dyes from 410-715 nm, D.M. Guthals and J.W. Nibler, *Optics Commun.*, 29(3), 322 (1979)
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For a current list of biology, biological stain, or biochemistry references for Disodium Fluorescein from PubMed, click on the following link:

[Disodium fluorescein or Uranin or Uranine](#)