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COUMARIN 485

Synonym: 7-(dimethylamino)-4-(trifluoromethyl)-2H-1-benzopyran-2-one; Coumarin 152

Catalog No.: 04850

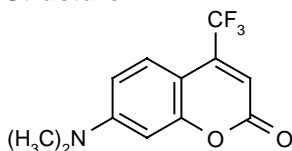
CAS No.: 53518-14-2

MW: 257.21

Chemical Formula: C₁₂H₁₀F₃NO₂

Appearance: Yellow crystalline powder

Structure:



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	Fl λ -max
479		FL21	p-Dioxane		397 ^e	510 ^e
519		FL21,23	Ethanol		395 ^m	
523		FL ³	Methanol	1 x 10 ⁻⁴		
518	494-566	XeF(351) ¹⁵⁴	Ethanol	1 x 10 ⁻²		
525	502-573	Nd:YAG(355) ⁵⁷	Methanol			
529	499-565	Nd:YAG(355) ¹¹⁰	Methanol	1.5 x 10 ⁻³		
500	482-517	N ₂ (337) ²²	p-Dioxane			
520	490-562	N ₂ (337) ⁵	Ethanol	1 x 10 ⁻²		

e=ethanol, m=methanol

REFERENCES:

- Phase-R Corporation, Box G-2 Old Bay Rd., New Durham, NH 03855
- Laser Photonics, Inc., 12351 Research Parkway, Orlando, FL 32826, formerly, Molelectron Corporation and Cooper LaserSonics, Inc.
- Laser Performance and Stability of Fluorinated Coumarin Dyes, E.J. Schimitschek, J.A. Trias, P.R. Hammond and R.L. Atkins, *Optics Commun.*, 11(4), 352 (1974)
- J.W. Ledbetter, private commun., 1977
- New Highly Efficient Laser Dyes, K.H. Drexhage and G.A. Reynolds, VII Int. Quantum Electronics Conf., Paper F. 1, San Francisco, CA., USA, 1974
- Quanta-Ray, Note: Quanta-Ray is now incorporated as a part of Spectra-Physics, 1250 W. Middlefield Road, Mountain View, CA 94039
- Lumonics Inc., 105 Schneider Road, Kanata, (Ottawa), Ontario, Canada K2K 1Y3
- Dye Laser Radiation in the 370-760nm Region Pumped by a XeF Excimer Laser, T.C. Eschrich and T.J. Morgan, *Applied Optics*, 24(7), 937 (1985)

For a current list of biology, biological stain, or biochemistry references for Coumarin 485 from PubMed, click on the following link:

[Coumarin 485 or Coumarin 152](#)