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COUMARIN 461

Synonym: 7-(dimethylamino)-4-methyl-2H-1-benzopyran-2-one; Coumarin 311

Catalog No.: 22175

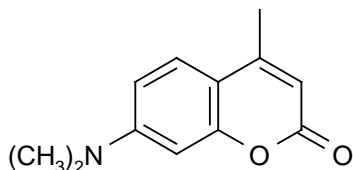
CAS No.: 87-01-4

MW: 203.24

Chemical Formula: C₁₂H₁₃NO₂

Appearance: Pale yellow crystalline solid

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
453	448-464 (bb)	FL ⁸ FL ^{256a}	Ethanol Ethanol	2.2 x 10 ⁻⁴	366 ^e	452 ^e

e = ethanol

REFERENCES:

8. Near-Ultraviolet Lasing Dyes, Part 1: Search for New Dyes and Summation of Results, P.R. Hammond, A.N. Fletcher, R.A. Henry, R.L. Atkins and D.W. Moore; and Near-Ultraviolet Lasing Dyes, Part 2: Effects of Coaxial Flashlamp Excitation, A.N. Fletcher, *NWC TP 5768* (1975); Laser Dye Stability, Part 3: Bicyclic Dyes in Ethanol, A.N. Fletcher, *Appl. Phys.*, 14, 295 (1977); Laser Dye Stability, Part 5: Effect of Chemical Substituents of Bicyclic Dyes Upon Photodegradation Parameters, A.N. Fletcher and D.E. Bliss, *Appl. Phys.*, 16, 289 (1978)
256. (a) Search for Efficient, Near UV Lasing Dyes. I. Substituent Effects on Bicyclic Dyes, P.R. Hammond, A.N. Fletcher, R.A. Henry and R.L. Atkins, *Appl. Phys.* 8, 311 (1975); and (b) Search for Efficient, Near UV Lasing Dyes. II. Aza Substitution in Bicyclic Dyes, P.R. Hammond, A.N. Fletcher, R.A. Henry and R.L. Atkins, *Appl. Phys.* 8, 315 (1975);

For a current list of biology, biological stain, or biochemistry references for Coumarin 461 from PubMed, click on the following link:

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