

## COUMARIN 461

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

**Catalog No.:** 22175

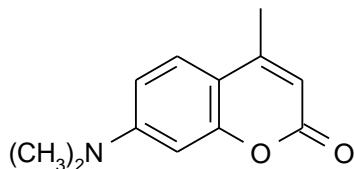
**CAS No.:** 87-01-4

**MW:** 203.24

**Chemical Formula:** C<sub>12</sub>H<sub>13</sub>NO<sub>2</sub>

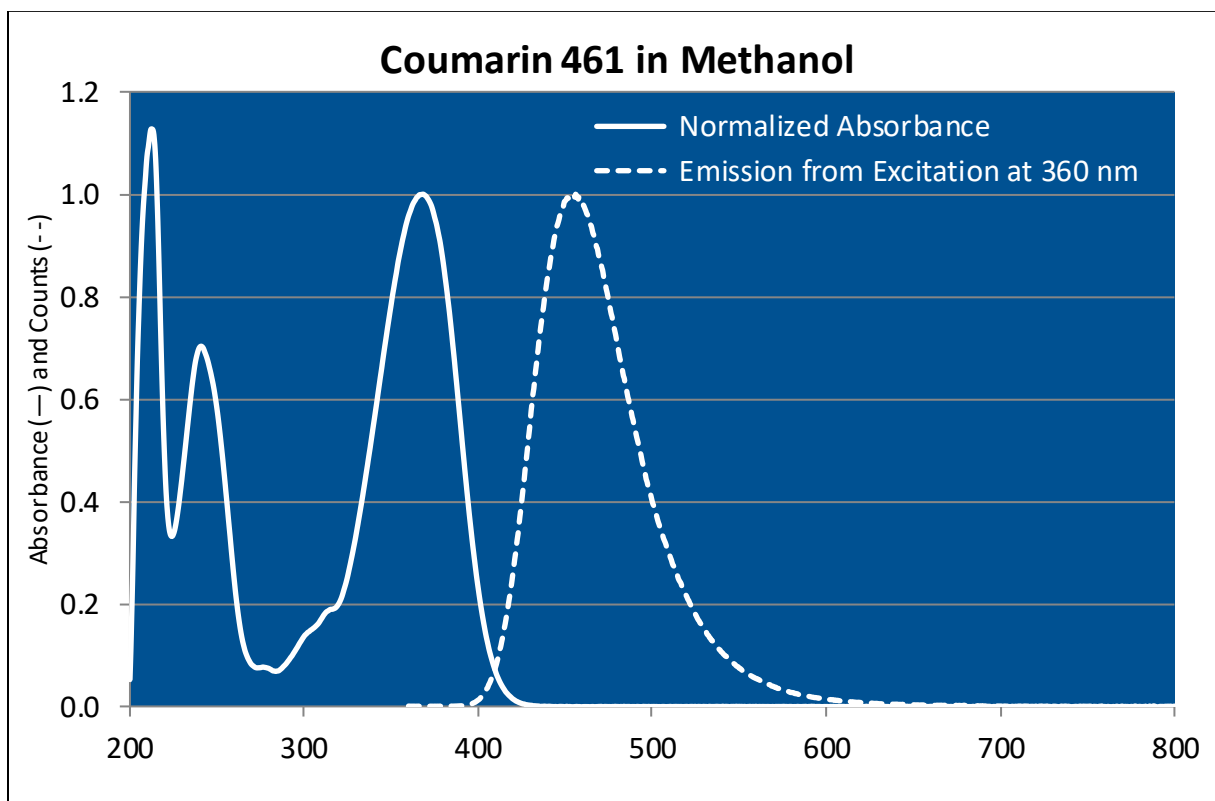
**Appearance:** Pale yellow crystalline solid

**Structure:**



<b>Lasing Wavelength Max. (nm)</b>	<b>Range (nm)</b>	<b>Pump Source (nm)</b>	<b>Solvent</b>	<b>Concentration (molar)</b>	<b>Abs λ-max</b>	<b>Fl λ-</b>
453	448-464 (bb)	FL <sup>8</sup> FL <sup>256a</sup>	Ethanol Ethanol	2.2 x 10 <sup>-4</sup>	366 <sup>e</sup>	452 <sup>e</sup>

e = ethanol



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.

## 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:

[Coumarin 461 or Coumarin 311](#)