

## COUMARIN 521

**Synonym:** 10-acetyl-2,3,6,7-tetrahydro-1H,5H,11H-[1]benzopyrano[6,7,8-ij]quinolizin-11-one; Coumarin 334

**Catalog No.:** 05210

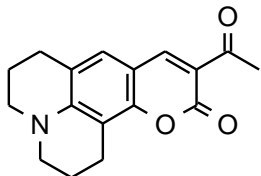
**CAS No.:** 55804-67-6

**MW:** 283.33

**Chemical Formula:** C<sub>17</sub>H<sub>17</sub>NO<sub>3</sub>

**Appearance:** Orange crystals

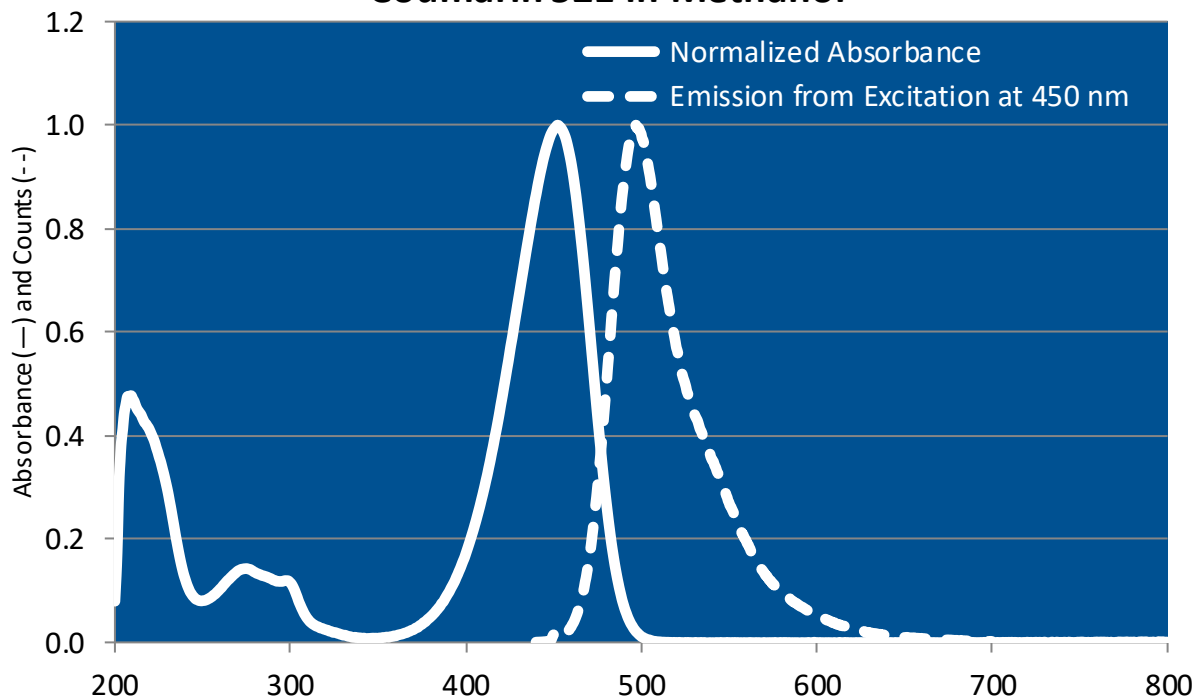
**Structure:**



Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
514	504-560	FL <sup>69</sup>	Methanol	6 x 10 <sup>-5</sup>	452 <sup>e</sup>	495 <sup>e</sup>
520	505-565	FL <sup>69</sup>	MeOH/H <sub>2</sub> O	8 x 10 <sup>-5</sup>		
521		FL <sup>19</sup>	Ethanol			
520	504-562	Ar (458 preferred, 488 can be used, Coherent 699 ring laser) <sup>236</sup>	MeOH/EG:1/21	~450mg/l		

MeOH/H<sub>2</sub>O=methanol/water, e=ethanol

### Coumarin 521 in Methanol





2150 Bixby Road  
Lockbourne, OH 43137  
Tel: 614.492.5610  
E-mail: [info.exciton@luxotticaretail.com](mailto:info.exciton@luxotticaretail.com)  
[www.exciton.luxottica.com](http://www.exciton.luxottica.com)

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:

19. New Coumarin Dyes with Rigidized Structure for Flashlamp-Pumped Dye Lasers, G.A. Reynolds and K.H. Drexhage, *Optics Commun.*, 13(3), 222 (1975)
69. Candela Laser Corporation, 530 Boston Post Road, Wayland, MA 01778-1833
236. Efficient and Stable Operation of an Ar<sup>+</sup>-pumped Continuous-Wave Ring Laser from 505-560 nm using a Coumarin Laser Dye, L.E. Jusinski and C.A. Taatjes, *Rev. Sci. Instrum.*, 72(6), 2837 (2001); Notes: conversion efficiency 16%, high stability compared to rhodamine dyes.

For a current list of biology, biological stain, or biochemistry references for Coumarin 521 from PubMed, click on the following link:

[Coumarin 521 or Coumarin 334](#)