

COUMARIN 478

Synonym: 2,3,6,7,10,11-hexahydro-1H,5H-cyclopenta[3,4][1]benzopyrano[6,7,8-ij]quinolizin-12(9H)-one; Coumarin 106

Catalog No.: 04780

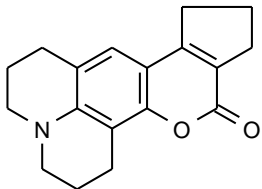
CAS No.: 41175-45-5

MW: 281.36

Chemical Formula: C₁₈H₁₉NO₂

Appearance: Pale yellow crystals

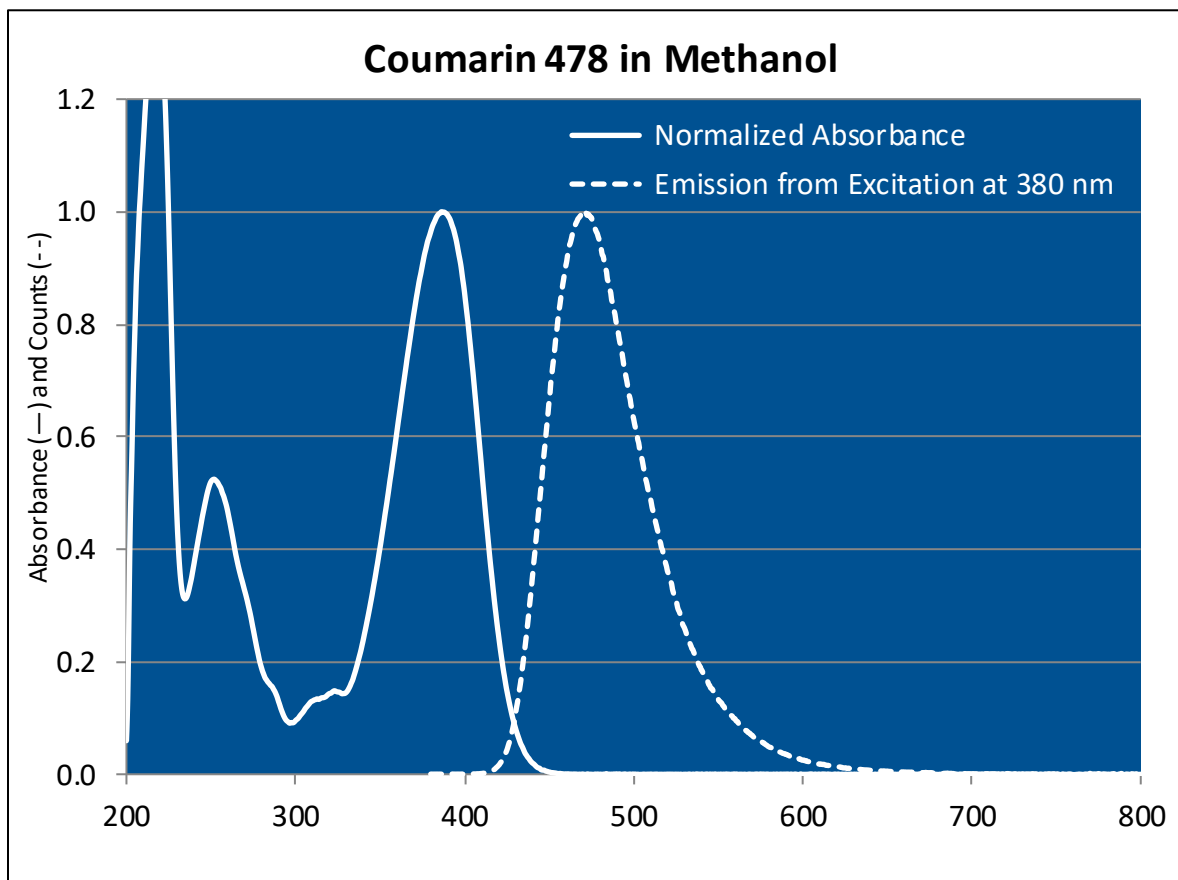
Structure:



Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Abs λ-max	Fl λ-max
478		FL ¹⁹	Ethanol	386 ^e	465 ^e

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.

Quantum Yields and Lifetimes

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
386		0.8	Ethanol		C-5

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)
- C-5. 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), <https://doi.org/10.1007/BF00885124>

For a current list of biology, biological stain, or biochemistry references for Coumarin 478 from PubMed, click on the following link:

[Coumarin 478 or Coumarin 106](#)