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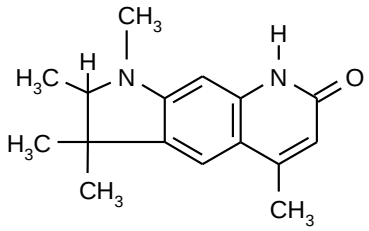
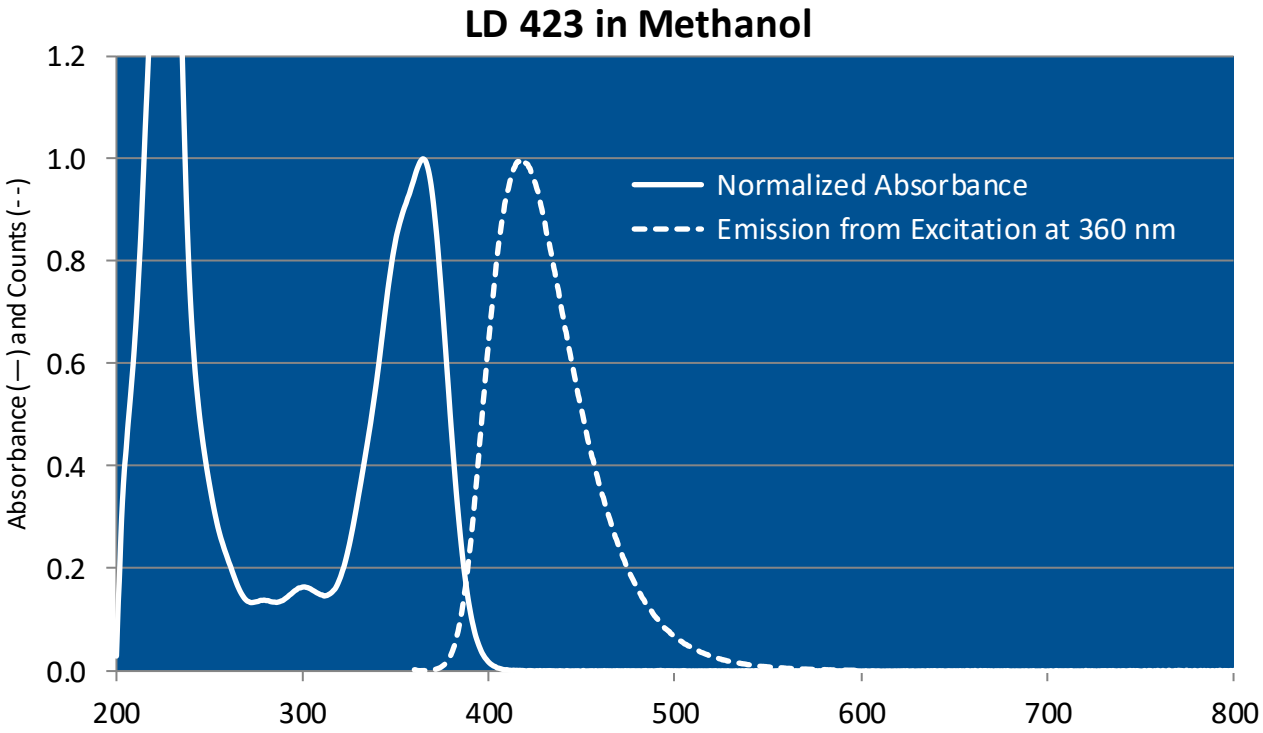
LD 423

Synonym: 1,2,3,8-tetrahydro-1,2,3,3,5-pentamethyl-7H-pyrrolo[3,2-g]quinolin-7-one
Catalog No.: 04230
CAS No.: 58336-37-1 **MW:** 256.34
Chemical Formula: $C_{16}H_{20}N_2O$
Appearance: Pale white crystals
Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
402	395-420	FL[3]	DMF		365[e]	413[e]
423	-419-427-	FL[8]	Ethanol			
425	410-442	FL[69]	Methanol	6×10^{-5}		
426	415-447	FL[3]	Methanol	2×10^{-4}		
415	399-433	XeCl(308)[114]	Methanol			
423	408-448	N_2(337)[10]	Ethanol	3×10^{-3}		
424	415-434	N_2(337)[9]	Ethanol	5×10^{-3}		

e = ethanol



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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
365		0.68	Ethanol		C-5

REFERENCES:

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9. A. Williamson, private commun., 1977

10. C. Kittrell, private commun., 1977

69. Candela Laser Corporation, 530 Boston Post Road, Wayland, MA 01778-1833

114. Optimization of Spectral Coverage in an Eight-Cell Oscillator-Amplifier Dye Laser Pumped at 308nm, F. Bos, *Appl. Optics*, 20, 3553 (1981)

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 LD 423 from PubMed, click on the following link:

LD 423 (zero references in PubMed as of May 2006)