



PO Box 31126
Dayton, OH 45437
Tel: 937.252.2989 Fax: 937.258.3937
E-mail: info@exciton.com
www.exciton.com

CARBOSTYRYL 165

Synonym: 7-Dimethylamino-4-methylcarbostyryl; Carbostyryl 3

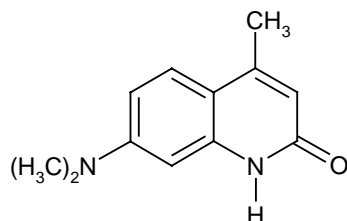
Catalog No.: 04240

CAS No.: 26078-23-9

MW: 202

Appearance: colorless, crystalline solid

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
425	-----	FL ¹⁶	Ethanol	-----	360 ^e	425 ^e
430	420-440	FL ^{8,11}	Methanol	1.98×10^{-4}		
440	415-490	Ar(cw) ¹⁴	EG	2.97×10^{-3}		

e = ethanol; EG = ethylene glycol

REFERENCES:

- 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)
- Lasing Characteristics of Seventeen Visible-Wavelength Dyes using a Coaxial-Flashlamp-Pumped Laser, J.B. Marling, J.H. Hawley, E.M. Liston and W.B. Grant, *Appl. Optics*, 13(10), 2317 (1974). a. With Rhodamine 6G
- CW Laser Emission Spanning the Visible Spectrum, J.M. Yarborough, *Appl. Phys. Lett.*, 24(12), 629 (1974). a. With Rhodamine 6G
- New Materials for Flash-Pumped Organic Lasers, R. Srinivasan, *IEEE J. Quantum Electron.*, QE5, 552 (1969)

For a current list of biology, biological stain, or biochemistry references for Carbostyryl 165 from PubMed, click on the following link:

[Carbostyryl 165 or Carbostyryl 203](#) (zero references as of May 2006)