



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

COUMARIN 445

Synonym: 7-(ethylamino)-4-methyl-2H-1-benzopyran-2-one

Catalog No.: 04450

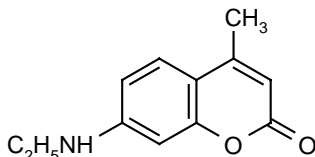
CAS No.: 28821-18-3

Molecular Weight: 203.24

Chemical Formula: C₁₂H₁₃NO₂

Appearance: Pale yellow crystals

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	Fl λ -max
445	423-445	FL ⁶⁹	MeOH/H ₂ O,1/1		363 ^m	430 ^e
451	430-474	Nd:YAG(355) ¹⁰³	Methanol	6.3 x 10 ⁻⁴ (osc), 3.2 x 10 ⁻⁴ (amp)		
445		N ₂ (337) ¹⁵	Ethanol			
460	435-484	Ar(cw)	EG			

MeOH/H₂O=methanol/water, EG=ethylene glycol, m=methanol, e=ethanol

REFERENCES:

15. Photochemical Studies on Organic Lasers, R. Srinivasan, R.J. von Gutfield, C.S. Angadiyavar and E.E. Tynan, AFML TR-74-110 (1974)
69. Candela Laser Corporation, 530 Boston Post Road, Wayland, MA 01778-1833
103. B. Rockney, private commun., 1979

For a current list of biology, biological stain, or biochemistry references for Coumarin 445 from PubMed, click on the following link:

[Coumarin 445](#)