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α -NPO

Synonym: 2-(1-naphthyl)-5-phenyl-oxazole

Catalog No.: 04000

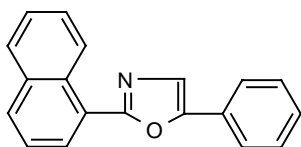
CAS No.: 846-63-9

Chemical Formula: C₁₉H₁₃NO

MW: 271.32

Appearance: White crystals

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
400		FL ²	Ethanol	2.5 x 10 ⁻⁴	329 ^e	398 ^e
400		XeCl(308) ¹¹⁴	Methanol		332 ^c	391 ^c
363/380	360-394	N ₂ (337) ¹¹⁹	Ethanol	2 x 10 ⁻³ (PPF), 5 x 10 ⁻⁵ (α -NPO)		
	393-423	N ₂ (337) ⁴	Toluene	2.5 x 10 ⁻³		
400	391-425	N ₂ (337) ¹¹⁴	p-Dioxane	2.6 x 10 ⁻³		

c = cyclohexane; e = ethanol

REFERENCES:

2. Ultraviolet Organic Liquid Lasers, H.W. Furumoto and H.L. Ceccon, *IEEE J. Quantum Electron.*, QE6, 262 (1970)
4. The Efficient Generation of Tunable Near UV Radiation Using an N₂ Pumped Dye Laser, F.B. Dunning and R.F. Stebbings, *Optics Commun.*, 11(2), 112 (1974)
114. Optimization of Spectral Coverage in an Eight-Cell Oscillator-Amplifier Dye Laser Pumped at 308nm, F. Bos, *Appl. Optics*, 20, 3553 (1981)
119. Efficient PPF- α NPO Energy Transfer Dye Laser in Ultraviolet Region, S. Muto, C. Ito and H. Inaba, *Jpn. J. Appl. Phys.*, 21(9), L535 (1982)