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POPOP

Synonym: 2,2'-(1,4-phenylene)bis[5-phenyl-oxazole]

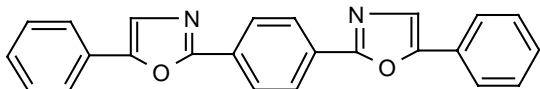
Catalog No.: 04190

CAS No.: 1806-34-4

Chemical Name: C₂₄H₁₆N₂O₂ **MW:** 364

Appearance: Pale yellow crystalline needles

Structure:



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
419		FL ⁷	Toluene	3.4 x 10 ⁻³	358 ^c	410 ^c
419		XeCl(308) ¹¹²	p-Dioxane	2 x 10 ⁻³		
421	411-446	XeCl(308) ¹¹⁴	p-Dioxane	1.6 x 10 ⁻³		
393		N ₂ (337) ⁷⁷	Vapor			
417	407-451	N ₂ (337) ⁴	p-Dioxane	1 x 10 ⁻³		
421	412-454	N ₂ (337) ¹¹⁴	Toluene/ethanol,7/3	1.1 x 10 ⁻³		
381		e-beam ⁷⁶	Vapor(Ar+N ₂)			

c = cyclohexane

REFERENCES:

- 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)
- Flashlamp Pumped Organic Scintillator Lasers, H.W. Furumoto and H.L. Ceccon, *J. Appl. Phys.*, 40, 4204 (1969)
- Intense Laser Emission from Electron-Beam - Pumped Ternary Mixtures of Ar, N₂, and POPOP Vapor, G. Marowsky, R. Cordray, F.K. Tittel, W.L. Wilson and C.B. Collins, *Appl. Phys. Lett.*, 33(1), 59 (1978)
- Optically Excited Organic Dye Vapor Laser, P.W. Smith, P.F. Liao, C.V. Schank, T.K. Gustafson, C. Lin and P.J. Maloney, *Appl. Phys. Lett.*, 25(3), 144 (1974)
- Efficient Dye Lasers Pumped by an XeCl Excimer Laser, O. Uchino, T. Mizunami, M. Maeda and Y. Miyazoe, *Appl. Phys.*, 19, 35 (1979)
- Optimization of Spectral Coverage in an Eight-Cell Oscillator-Amplifier Dye Laser Pumped at 308nm, F. Bos, *Appl. Optics*, 20, 3553 (1981)

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