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p-QUATERPHENYL

Synonym: 1,1':4',1'':4'',1'''-quaterphenyl; PQP

Catalog No.: 03740

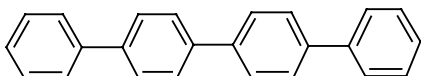
CAS No.: 135-70-6

MW: 306.41

Chemical Formula: C₂₄H₁₈

Appearance: White crystals

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	Fl λ -max
374	371-376	FL ²	DMF	7 x 10 ⁻³	294 ^c	365 ^c
	362-390	FL ⁸	DMF		297 ^t	
		N ₂ (337) ⁶	Toluene			

c = cyclohexane, t = toluene

REFERENCES:

2. Ultraviolet Organic Liquid Lasers, H.W. Furumoto and H.L. Ceccon, *IEEE J. Quantum Electron.*, QE6, 262 (1970)
6. Dye Lasers in the Ultraviolet, J.A. Myer, I. Itzkan, E. Kierstead, *Nature*, 225, 544 (1970)
8. 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)

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