



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

## PBBO

**Synonym:** 2-[1,1'-biphenyl]-4-yl-6-phenyl-benzoxazole

**Catalog No.:** 04001

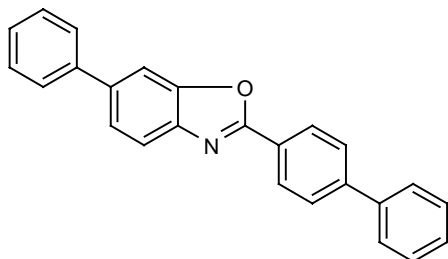
**CAS No.:** 17064-47-0

**Chemical Formula:** C<sub>25</sub>H<sub>17</sub>NO

**MW:** 347.40

**Appearance:** White crystal

**Structure:**



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
392	378-413	XeCl(308) <sup>114</sup>	Toluene/ethanol,4/6	4 x 10 <sup>-4</sup> (PBBO), 3.1 x 10 <sup>-4</sup> (BBQ)	331 <sup>p</sup>	395 <sup>t</sup>
396	386-420	XeCl(308) <sup>114</sup>	p-Dioxane	1.2 x 10 <sup>-3</sup>		
399	389-419	XeCl(308) <sup>114</sup>	Toluene/ethanol,4/6	1.1 x 10 <sup>-3</sup>		
395	380-430	N <sub>2</sub> (337) <sup>183</sup>	p-Dioxane	3 x 10 <sup>-3</sup>		
396	378-440	N <sub>2</sub> (337) <sup>90</sup>	Toluene/ethanol,7/3	3 x 10 <sup>-3</sup>		
396	388-417	N <sub>2</sub> (337) <sup>114</sup>	p-Dioxane	2.3 x 10 <sup>-3</sup>		
400	391-411	N <sub>2</sub> (337) <sup>5</sup>	Toluene/ethanol,7/3	5 x 10 <sup>-4</sup>		

p = p-dioxane; t = toluene

### REFERENCES:

5. Laser Photonics, Inc., 12351 Research Parkway, Orlando, FL 32826, formerly, Molelectron Corporation and Cooper LaserSonics, Inc.
90. Jobin Yvon, 16-18 rue du Canal B.P. 118, 91163 Longjumeau Cedex France
114. Optimization of Spectral Coverage in an Eight-Cell Oscillator-Amplifier Dye Laser Pumped at 308nm, F. Bos, *Appl. Optics*, 20, 3553 (1981)
183. Laser Science, Inc., 26 Landsdowne Street, Cambridge, MA 02139

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

[PBBO](#) (zero references in PubMed as of May 2006)