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## BBQ

**Synonym:** 4,4''-bis[(2-butyloctyl)oxy]-1,1':4',1'':4'',1'''- quaterphenyl; BiBuQ

**Catalog No.:** 03800

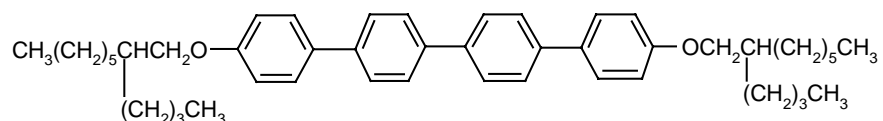
**CAS No.:** 18434-08-7

**MW:** 675.01

**Chemical Formula:** C<sub>48</sub>H<sub>66</sub>O<sub>2</sub>

**Appearance:** White crystalline powder

**Structure:**



| Max. Lasing Wavelength (nm) | Range (nm) | Pump Source (nm)                    | Solvent             | Concentration (molar)   | Abs λ-max        | FI λ-max         |
|-----------------------------|------------|-------------------------------------|---------------------|---|------------------|------------------|
| 390                         | 370-410    | FL <sup>3</sup>                     | DMF                 | 8 x 10 <sup>-5</sup>  | 306 <sup>c</sup> | 381 <sup>c</sup> |
| 380                         |            | KrF(248) <sup>45</sup>              | Cyclohexane         |   | 307 <sup>e</sup> | 391 <sup>d</sup> |
| 386                         |            | KrF(248) <sup>46</sup>              |                     |   |                  |                  |
| 365/382                     | 359-405    | XeCl(308) <sup>118</sup>            | Cyclohexane         | 3.6 x 10 <sup>-4</sup> (osc)  |                  |                  |
| 367                         | 361-390    | XeCl(308) <sup>114</sup>            | Toluene/ethanol,4/6 | 6.2 x 10 <sup>-4</sup><br>(BPBD-365),<br>1.4 x 10 <sup>-4</sup> (BBQ) |                  |                  |
| 381                         | 370-392    | XeCl(308) <sup>114</sup>            | Cyclohexane         | 4.5 x 10 <sup>-4</sup>  |                  |                  |
| 383                         |            | XeCl(308) <sup>112</sup>            | p-Dioxane           | 5 x 10 <sup>-4</sup>  |                  |                  |
| 384                         | 364-398    | XeCl(308) <sup>114</sup>            | p-Dioxane           | 5.5 x 10 <sup>-4</sup>  |                  |                  |
| 385                         | 366-400    | XeCl(308) <sup>114</sup>            | Toluene/ethanol,4/6 | 5.2 x 10 <sup>-4</sup>  |                  |                  |
| 386                         | 360-410    | XeCl(308) <sup>204</sup>            | p-Dioxane           | 2.5 x 10 <sup>-4</sup> (osc),<br>2.5 x 10 <sup>-4</sup> (amp)         |                  |                  |
| 387                         | 368-396    | XeCl(308) <sup>110</sup>            | p-Dioxane           | 2 x 10 <sup>-4</sup>  |                  |                  |
| 386                         | 373-399    | XeF(351) <sup>154</sup>             | Toluene/ethanol     | 2.5 x 10 <sup>-3</sup>  |                  |                  |
| 382                         | 373-391    | Nd:YAG(266) <sup>81</sup>           | Cyclohexane         | 2.5 x 10 <sup>-3</sup> (osc),<br>6 x 10 <sup>-4</sup> (amp)           |                  |                  |
| 391                         | 380-410    | Nd:YAG(355) <sup>80</sup>           | Toluene/ethanol,1/1 | 2 x 10 <sup>-3</sup>  |                  |                  |
| 386                         | 366-395    | N <sub>2</sub> (337) <sup>114</sup> | Toluene/ethanol,7/3 | 1 x 10 <sup>-3</sup>  |                  |                  |
| 386                         | 373-399    | N <sub>2</sub> (337) <sup>5</sup>   | Toluene/ethanol     | 2.5 x 10 <sup>-3</sup>  |                  |                  |
| 387                         | 365-407    | N <sub>2</sub> (337) <sup>114</sup> | p-Dioxane           | 1 x 10 <sup>-3</sup>  |                  |                  |
| 390                         | 380-395    | N <sub>2</sub> (337) <sup>183</sup> | p-Dioxane           | 13.5mg/20ml   |                  |                  |

c = cyclohexane; d = DMF; e = ethanol



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