

BBQ

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

Catalog No.: 03800

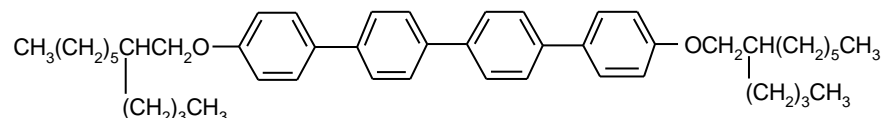
CAS No.: 18434-08-7

MW: 675.01

Chemical Formula: C₄₈H₆₆O₂

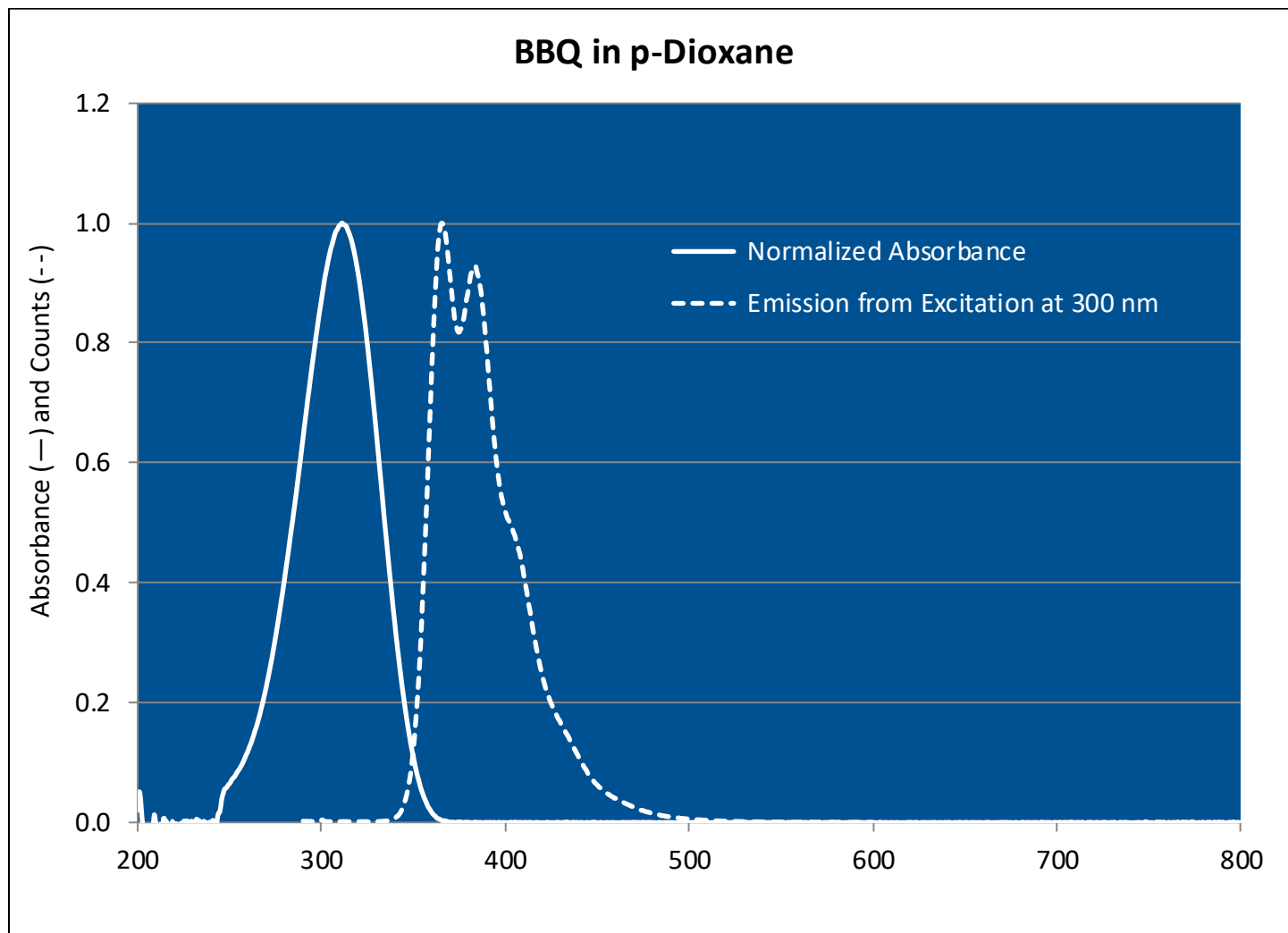
Appearance: White crystalline powder

Structure:



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

c = cyclohexane; d = DMF; e = ethanol



The information presented above is believed to be accurate but is not a specification. The customer is fully responsible for determining the suitability of this product for use in their application. Exciton, Inc. does not represent that the information is sufficient or complete for any specific application.

Quantum Yields and Lifetimes

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
~306	380	0.93	Cyclohexane	0.9	Berlman, p298

REFERENCES:

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