

EXALITE 411

Synonym: 2,2'-Bi-9*H*-fluorene, 7,7'-diphenyl-9,9,9',9'-tetrapropyl-

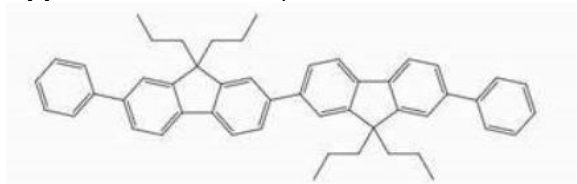
Catalog No.: 04110

CAS No.: 131549-47-8

Chemical Formula: C₅₀H₅₀

MW: 650.93

Appearance: White crystalline solid



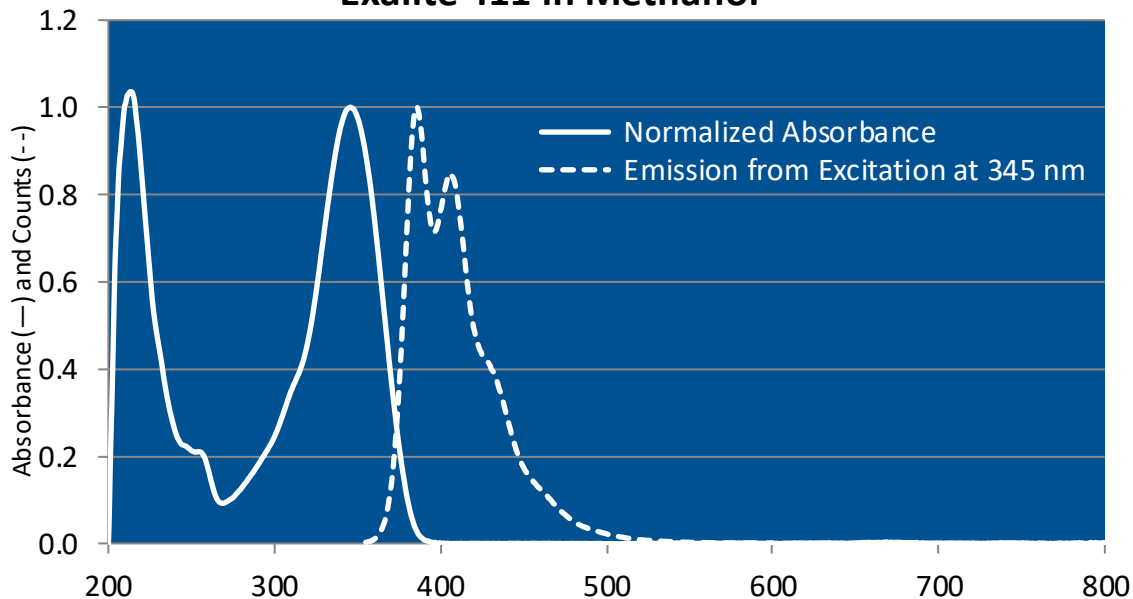
Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
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The Exalite dyes (Exalite 392A, Exalite 404, Exalite 411, Exalite 417 and Exalite 428) all have excellent operating lifetimes. The preferred solvent is p-Dioxane. Most of these dyes have very high absorption coefficients at 355nm, making them excellent candidates for pumping with the third harmonic of the Nd:YAG laser as well as under XeCl(308nm) pumping.

	411/400	392-421	XeCl(308) ^{177c}	p-Dioxane	7.3 x 10 ⁻⁴	347 ^c	387 ^c
and	411 391	402-419 386-396	Nd:YAG(355) ¹¹⁰	p-Dioxane	~3.7 x 10 ⁻⁵		408
	411 391	401-422 386-396	Nd:YAG(355) ⁵⁷	p-Dioxane	2.3 x 10 ⁻⁴ (osc), 0.6 x 10 ⁻⁴ (amp)		
	411	404-417	Nd:YAG(355) ²³⁹	p-Dioxane	2.2 x 10 ⁻⁴		

c = cyclohexane

Exalite 411 in Methanol



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.

REFERENCES:

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 - a. Characterization of New Excimer Pumped UV Laser Dyes I. p-Terphenyls, D.J. Schneider, D.A. Landis, P.A. Fleitz, C.J. Seliskar, J.M. Kauffman and R.N. Steppel, *Laser Chem.*, 11, 49 (1991);
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 - c. Characterization of New Excimer Pumped UV Laser Dyes 3. p-Quinqui-, Sexi-, Octi- and Deciphenyls, C.J. Seliskar, D.A. Landis, J.M. Kauffman, M.A. Aziz, R.N. Steppel, C.J. Kelley, Y. Qin and A. Ghiorghis, *Laser Chem.*, 13(1), 19 (1993)
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