

EXALITE 417

Synonym: 2,2':7',2''-Ter-9*H*-fluorene, 7,7''-bis(1,1-dimethylpropyl)- 9,9,9'',9''-tetraethyl-9',9'-dipropyl

Catalog No.: 04170

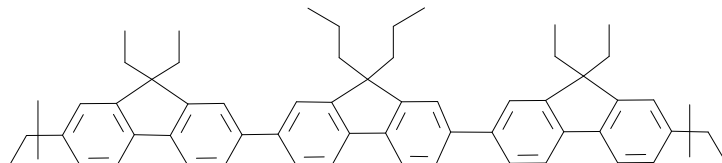
CAS No.: 153307-07-4 **MW:** 831.26

Chemical Formula: C₆₃H₇₄

Appearance: White crystalline solid

Structure:

NOTE: Chemical Abstracts Formula, Name, and Structure are incorrect!



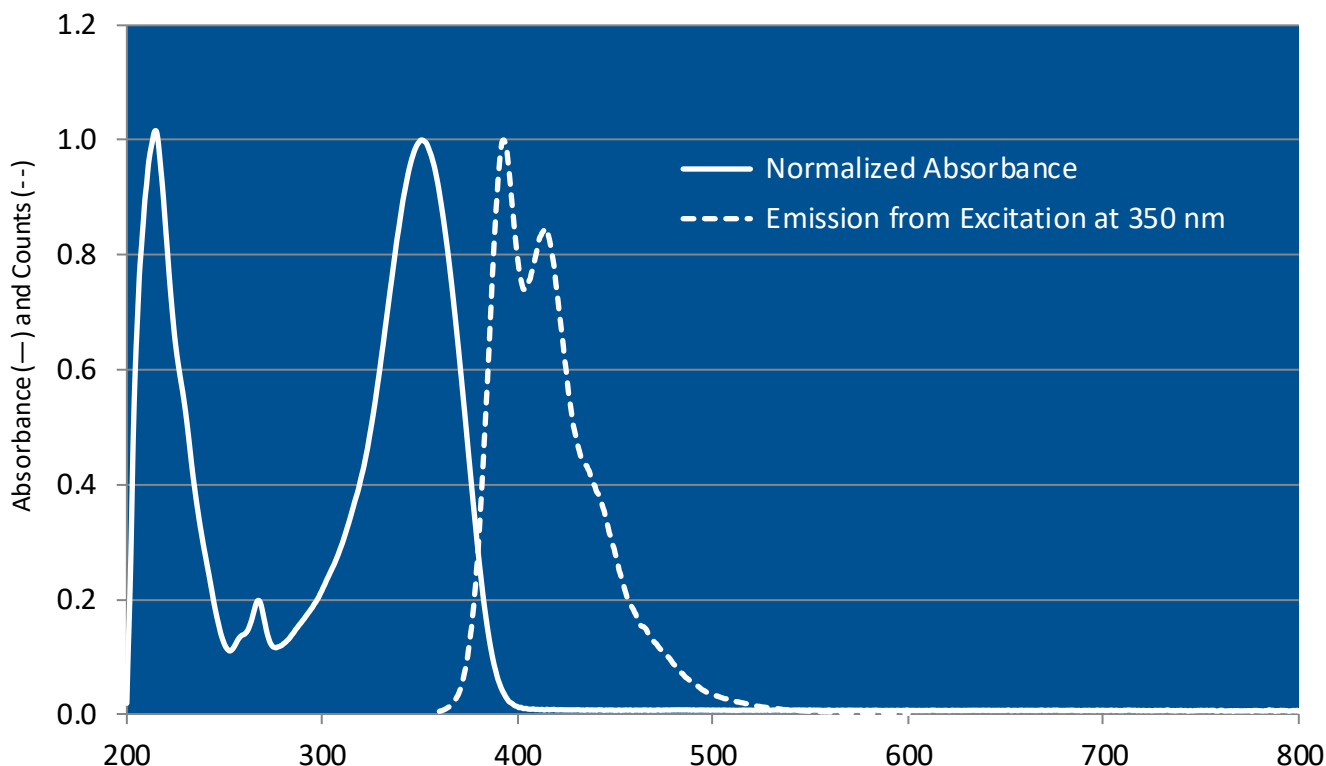
	Lasing Wavelength		Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
	Max. (nm)	Range (nm)					

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.

	416/406	398-430	XeCl(308) ^{177c}	p-Dioxane	9.8 x 10 ⁻⁴	353 ^c	397 ^c
and	416 398	406-425 392-404	Nd:YAG(355) ¹¹⁰	p-Dioxane	~3 x 10 ⁻⁵		415
and	416 398	404-425 392-404	Nd:YAG(355) ⁵⁷	p-Dioxane	3.6 x 10 ⁻⁴ (osc), 0.9 x 10 ⁻⁴ (amp)		
	419	413-422	Nd:YAG(355) ²³⁹	p-Dioxane	2.4 x 10 ⁻⁴		

c = cyclohexane

Exalite 417 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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110. Lumonics Inc., 105 Schneider Road, Kanata, (Ottawa), Ontario, Canada K2K 1Y3
177. Exciton and Associates, unpublished data, 1987-1989;
 - 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);
 - b. Characterization of New Excimer Pumped UV Laser Dyes 2. p-Quaterphenyls, P.A. Fleitz, C.J. Seliskar, R.N. Steppel, J.M. Kauffman, C.J. Kelley and A. Ghiorghis, *Laser Chem.*, 11, 99 (1991);
 - 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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