

EXALITE 392E

Synonym: Disodium 3,3'-[(9,9-dipropyl-9H-fluorene-2,7-diyl)bis-(4,1-phenyleneoxy)]bis[1-propane sulfonate]

Catalog No.: 03920

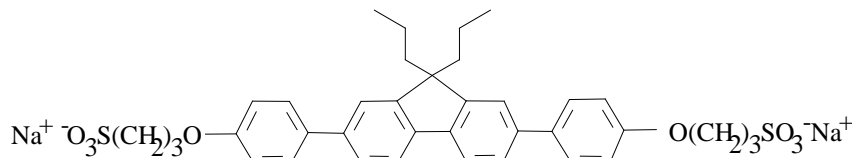
CAS No.: 118216-60-7

MW: 726

Chemical Formula: C₃₇H₄₀O₈S₂Na₂

Appearance: White crystalline solid

Structure:



Lasing Wavelength

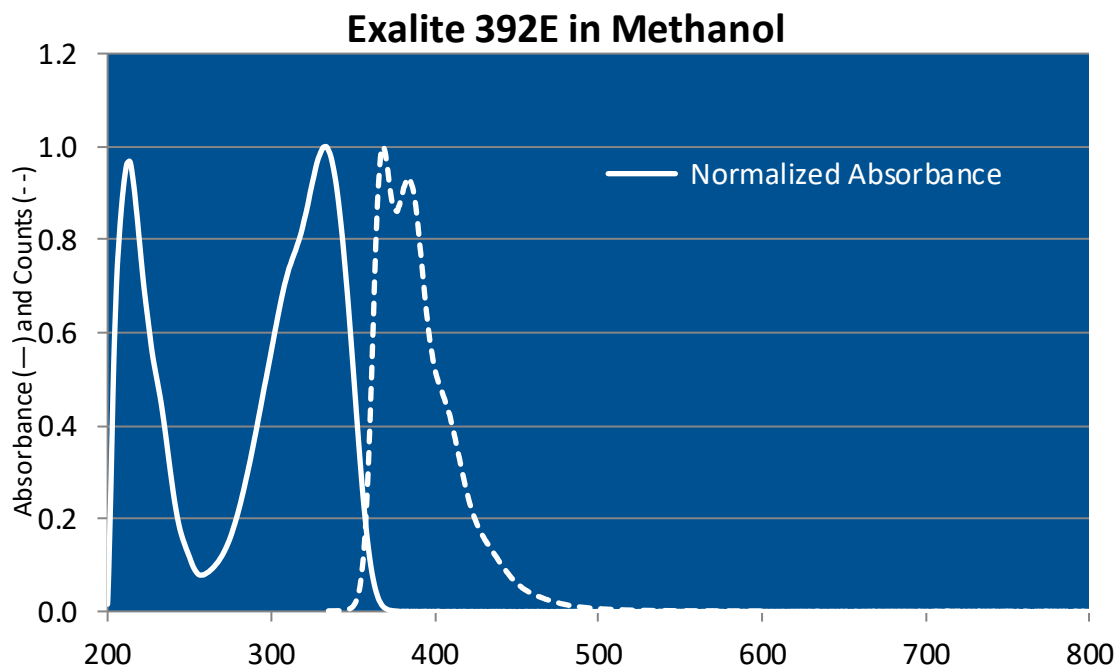
Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
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NOTE: Exalite 377E, 392E, and 400E are NOT recommended for pumping with XeCl(308nm). Also, the Exalite E series of dyes is especially designed and suited for dissolving in ethylene glycol, therefore, the "E" designation.

390	375-411	Ar(uv, all lines) ⁶⁸	EG	2.77 x 10 ⁻³	336 ^{eg}	393 ^{eg}
392	373-408	Ar(mid uv) ¹⁷⁹	EG	1.6 x 10 ⁻³		
392	375-410	Ar(334-364) ²⁰⁶	EG	2.77 x 10 ⁻³		
393	375-410	Ar(mid uv) ^{17,177}	EG	1.5 x 10 ⁻³		

* This represents a maximum value. Concentration should be adjusted to 80-85% absorption of the pump light.

eg = ethylene glycol



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:

17. Spectra-Physics, 1250 W. Middlefield Road, Mountain View, CA 94039
68. Coherent Inc., 3210 Porter Dr., Palo Alto, CA 94304
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 Exciton and Associates, unpublished data, 1987-1989;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)
179. Exalite 392E: A New Laser Dye For Efficient CW Operation Between 373 and 408 nm, F.P. Tully and J.L. Durant, Jr., *Appl. Optics*, 27(11), 2096 (1988)
206. Coherent Inc., 3210 Porter Dr., Palo Alto, CA 94304; (599 Composite Tuning Curves, 1992; The concentration shown represents a maximum value. The final concentration should be adjusted to obtain 80-85% absorption of the pump light.)