



PO Box 31126  
Dayton, OH 45437  
Tel: 937.252.2989 Fax: 937.258.3937  
E-mail: info@exciton.com  
www.exciton.com

## EXALITE 428

Catalog No.: 04280

CAS No.: N/A

MW: 1012

Appearance: White crystalline solid

	Lasing Wavelength		Pump Source	Solvent	Concentration	Abs	FI
	Max. (nm)	Range (nm)	(nm)		(molar)	$\lambda$ -max	$\lambda$ -max
	428/412	408-439	XeCl(308) <sup>177c</sup>	p-Dioxane	$8.8 \times 10^{-4}$	359.5 <sup>P</sup>	401 <sup>C</sup>
	426	415-436	Nd:YAG(355) <sup>110</sup>	p-Dioxane	$\sim 5.1 \times 10^{-5}$		424
and	406	399-415					
	426	416-434	Nd:YAG(355) <sup>57</sup>	p-Dioxane	$2.4 \times 10^{-4}$ (osc),		
and	406	400-416			$0.4 \times 10^{-4}$ (amp)		
	427	419-434	Nd:YAG(355) <sup>239</sup>	p-Dioxane	$1.5 \times 10^{-4}$		
	430	411-444	Ar-ion <sup>211</sup>	NMP/EG(1:4)	$1 \times 10^{-3}$		
	428	350-460	N <sub>2</sub> (337) <sup>183</sup>	p-Dioxane	13.3mg/20ml		

NMP/EG = n-methyl-2-pyrrolidinone/ethylene glycol; c = cyclohexane; p = p-dioxane

### REFERENCES:

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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 Exciton and Associates, unpublished data, 1987-1989; **a.** Characterization of New Excimer Pumped UV Laser Dyes I. p-Terphenyls, D.J. Schneider, D.A. Landis, P.A. Fleitz, C.J. Seliskar, J.M.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-Quinqu-, 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)
183. Laser Science, Inc., 26 Landsdowne Street, Cambridge, MA 02139
211. R. Schelten, private commun., 1993 (with BRF, Stilbene 420 optics, Coherent 699, conversion efficiency ~10%)