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## LD 466

**Synonym:** 7-(diethylamino)-2H-1-benzopyran-2-one; Coumarin 466

**Catalog No.:** 04660

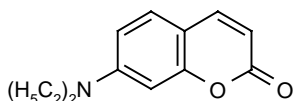
**CAS No.:** 20571-42-0

**MW:** 217.26

**Chemical Formula:** C<sub>13</sub>H<sub>15</sub>NO<sub>2</sub>

**Appearance:** Yellow-white crystalline powder

**Structure:**



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs $\lambda$ -max	Fl $\lambda$ -max
466		FL <sup>18</sup>	Ethanol		368 <sup>m</sup>	463 <sup>m</sup>
474	462-490	FL <sup>3</sup>	Methanol + LO	8 x 10 <sup>-5</sup>		
470	449-505	XeCl(308) <sup>110</sup>	Methanol	2.5 x 10 <sup>-3</sup>		
470	450-495	XeCl(308) <sup>146</sup>	Methanol	5.4 x 10 <sup>-3</sup> (osc), 1.9 x 10 <sup>-3</sup> (amp)		
462	450-485	Nd:YAG(355) <sup>109</sup>	Ethanol	1 x 10 <sup>-3</sup>		
465	446-500	Nd:YAG(355) <sup>110</sup>	Methanol	5 x 10 <sup>-4</sup>		
467	459-477	Nd:YAG(355) <sup>54</sup>	Ethanol	2.5 x 10 <sup>-4</sup>		
472	450-501	Nd:YAG(355) <sup>103</sup>	Methanol	8.3 x 10 <sup>-4</sup> (osc), 3.4 x 10 <sup>-4</sup> (amp)		
464	446-492	N <sub>2</sub> (337) <sup>9</sup>	p-Dioxane/EtOH,5/3	7.5 x 10 <sup>-3</sup>		
465	-452-480-	N <sub>2</sub> (337) <sup>9</sup>	Ethanol			

m = methanol

### REFERENCES:

- Phase-R Corporation, Box G-2 Old Bay Rd., New Durham, NH 03855
- A. Williamson, private commun., 1977
- New Laser Dyes with Blue-Green Emission, E.J. Schimitschek, J.A. Trias, P.R. Hammond, R.A. Henry and R.L. Atkins, *Optics Commun.*, 16(30), 313 (1976)
- W. R. Green, private commun., 1977
- B. Rockney, private commun., 1979
- Tuning Ranges of 355 nm Pumped Dyes from 410-715 nm, D.M. Guthals and J.W. Nibler, *Optics Commun.*, 29(3), 322 (1979)
- Lumonics Inc., 105 Schneider Road, Kanata, (Ottawa), Ontario, Canada K2K 1Y3
- Excimer (308) Pumped LD466, N. Presser, private commun., 1985. LD-466 gives as much output as Coumarin 480

For a current list of biology, biological stain, or biochemistry references for LD 466 from PubMed, click on the following link:

[LD 466 or Coumarin 466](#) (zero references as of May 2006)