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COUMARIN 460

Synonym: 7-(diethylamino)-4-methyl-2H-1-benzopyran-2-one; Coumarin 1; Coumarin 47

Catalog No.: 04600

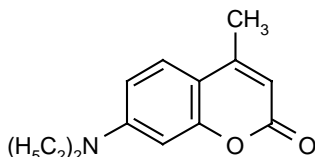
CAS No.: 91-44-1

MW: 231.30

Chemical Formula: C₁₄H₁₇NO₂

Appearance: White crystalline powder

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
457	450-484	FL ³	Ethanol	1.5 x 10 ⁻⁴	373 ^e	445 ^e
460		FL ⁶³	Ethanol	2 x 10 ⁻⁴	375 ^m	395 ^{c82}
461	448-489	FL ³	Methanol	1.5 x 10 ⁻⁴		416 ^y
456		XeCl(308) ¹¹²	Ethanol	4 x 10 ⁻³		434 ⁿ
460	438-495	XeCl(308) ¹¹⁸	Ethanol	1.1 x 10 ⁻² (osc)		451 ^e
460	441-498	XeCl(308) ¹¹⁴	Methanol	7 x 10 ⁻³		458 ^{e/w}
460	442-482	XeCl(308) ¹¹⁰	Ethanol	3 x 10 ⁻³		463 ^g
460	443-481	XeCl(308) ¹¹⁰	Methanol	3 x 10 ⁻³		
462	437-495	XeCl(308) ²⁰⁴	Methanol	5 x 10 ⁻³ (osc), 4.5 x 10 ⁻³ (amp)		
457	440-478	XeF(351) ¹⁵⁴	Ethanol	1 x 10 ⁻³		
454	440-475	Nd:YAG(355) ¹⁰⁹	Ethanol	5 x 10 ⁻³		
457		Nd:YAG(355) ⁵⁹	Ethanol	7 x 10 ⁻⁴		
459	443-485	Nd:YAG(355) ¹¹⁰	Methanol	4 x 10 ⁻⁴		
460	442-479	Nd:YAG(355) ²³⁹	Ethanol	1.1 x 10 ⁻³		
460	444-480	Nd:YAG(355) ⁵⁷	Methanol	1.3 x 10 ⁻³ (osc), 2.6 x 10 ⁻⁴ (amp)		
461	442-490	Nd:YAG(355) ⁵³	Methanol	1.6 x 10 ⁻³ (osc), 5.6 x 10 ⁻⁴ (amp)		
457	440-478	N ₂ (337) ⁵	Ethanol	1 x 10 ⁻²		
460	436-498	N ₂ (337) ¹¹⁴	Ethanol	3.5 x 10 ⁻³		
464	434-500	N ₂ (337) ⁹⁰	Ethanol	4.5 x 10 ⁻³		
475	450-510	N ₂ (337) ¹⁸³	Methanol	50mg/20ml		
470	450-495	Ar or Kr(uv) ¹⁷	EG	3 x 10 ⁻³		
472	446-506	Ar(cw) ¹⁴	EG			
471	448-505	Kr(uv) ⁶⁸	MeOH/EG	80% pump absorption		

EG=ethylene glycol, MeOH=methanol, e=ethanol, m=methanol, c=cyclohexane, y=ethyl acetate, n=acetonitrile, e/w=ethanol/water, g=glycerol



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