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COUMARIN 440

Synonym: 7-amino-4-methyl-2H-1-benzopyran-2-one; Coumarin 120

Catalog No.: 04400

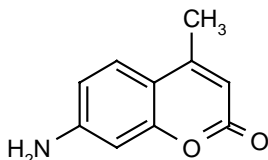
CAS No.: 26093-31-2

MW: 175.15

Chemical No.: C₁₀H₉NO₂

Appearance: Light yellow crystalline solid

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	FI λ -max
440	419-469	FL ¹¹	Methanol	2×10^{-4}	354 ^e	430 ^e
440	423-462	FL ³	Ethanol	3×10^{-4}	351 ^m	
442	425-443	FL ³	Methanol	3×10^{-4}		
442	435-455	FL ¹²	MeOH/H ₂ O,1/1	2.8×10^{-4}		
453		FL ⁶⁰	H ₂ O	2.8×10^{-4}		
435	418-460	XeCl(308) ¹¹⁴	p-Dioxane/EtOH,7/3	3.4×10^{-3}		
436		XeCl(308) ¹¹²	Ethanol	4×10^{-3}		
438	422-467	XeCl(308) ¹¹⁴	Methanol	7×10^{-3}		
440	415-472	XeCl(308) ²⁰⁴	Methanol	3.5×10^{-3} (osc), 3×10^{-3} (amp)		
440	425-464	XeCl(308) ¹¹⁰	Ethanol	2.5×10^{-3}		
442	431-459	XeCl(308) ¹¹⁰	Methanol	2×10^{-3}		
437	422-465	XeF(351) ¹⁵⁴	Ethanol	5×10^{-3}		
435	422-459	Nd:YAG(355) ¹¹⁰	Methanol	4×10^{-4}		
440	424-458	Nd:YAG(355) ⁵⁷	Methanol	1.7×10^{-3} (osc), 3.4×10^{-4} (amp)		
441		Nd:YAG(355) ⁵⁹	Ethanol	7×10^{-4}		
441	429-460	Nd:YAG(355) ²³⁹	Ethanol	1.4×10^{-3}		
443	427-464	Nd:YAG(355) ⁵³	Methanol	1.4×10^{-3} (osc), 5.7×10^{-4} (amp)		
435	410-480	N ₂ (337) ¹⁸³	Methanol	5×10^{-3}		
437	417-473	N ₂ (337) ¹¹⁴	Ethanol	2.3×10^{-3}		
437	420-457	N ₂ (337) ⁵	Ethanol	5×10^{-3}		
438	419-466	N ₂ (337) ¹⁰	Ethanol	3×10^{-3}		
439	416-473	N ₂ (337) ⁹⁰	Ethanol	6.1×10^{-3}		
445	420-475	N ₂ (337) ¹⁸³	Methanol	17.5mg/20ml		
450	420-470	Ar(351/364) ¹³	20% aq.DPA + COT	1×10^{-3}		
450	427-477	Ar(cw) ¹⁴	EG			

MeOH/H₂O=methanol/water, EtOH=ethanol, DPA=N, N-dipropylacetamide, COT=cyclooctatetraene, EG=ethylene glycol, e=ethanol, m=methanol



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