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DCM

Synonym: [2-[2-[4-(dimethylamino)phenyl]ethenyl]-6-methyl-4H-pyran-4-ylidene]-propanedinitrile

Catalog No.: 06490

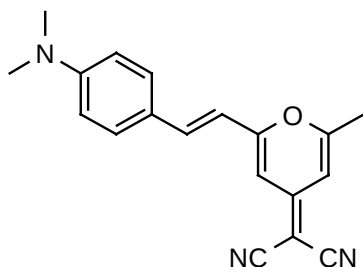
CAS No.: 51325-91-8

Chemical Formula: C₁₉H₁₇N₃O

MW: 303.37

Appearance: Red or orange-red crystals or powder

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
635	600-677	FL ⁶⁹	Methanol	4 x 10 ⁻⁵	481 ^S	644 ^S
649		FL ⁷³	DMF			
655		FL ⁷³	DMSO			
637	602-686	XeCl(308) ¹¹⁰	Methanol	1 x 10 ⁻³		
643	615-680	XeCl(308) ¹¹⁰	PC/Methanol, 1/4	6 x 10 ⁻⁴		
655	618-713	XeCl(308) ²⁰⁴	DMSO	1.67 x 10 ⁻³ (osc), 1.10 x 10 ⁻³ (amp)		
	-600-642-	Nd:YAG(532) ¹³⁸	MeOH/BzOH	2.2 x 10 ⁻⁴ (R640)+ 3 x 10 ⁻⁴ (DCM)(osc), 2.9 x 10 ⁻⁵ (R640)+ 4 x 10 ⁻⁵ (DCM)(amp)		
606	-594-630-	Nd:YAG(532) ¹⁴⁰	Ethanol	5.5 x 10 ⁻⁴ (SR640)+ 2.7 x 10 ⁻⁵ (DCM)(osc), 5.5 x 10 ⁻⁵ (SR640)(amp)		
610	600-655	Nd:YAG(532) ⁵	EtOH/H ₂ O, 77/23 +DSS(2.3 x 10 ⁻⁴ M)	6.1 x 10 ⁻⁴ (R640), 5.9 x 10 ⁻⁴ (DCM)(osc); 4.6 x 10 ⁻⁵ (R640)(amp)		
627	602-660	Nd:YAG(532) ²³⁹	Ethanol	9.9 x 10 ⁻⁴		
635	607-676	Nd:YAG(532) ⁵³	Methanol	3.3 x 10 ⁻⁴ (osc), 1.1 x 10 ⁻⁴ (amp)		
635	608-660	Nd:YAG(532) ¹⁸⁹	CF ₃ CH ₂ OH	3 x 10 ⁻³		
635	610-660	Nd:YAG(532) ⁵	Ethanol	1.5 x 10 ⁻³ (osc), 1.5 x 10 ⁻³ (pre-amp), 1.4 x 10 ⁻⁴ (amp)		
640	571-662	Nd:YAG(532) ¹³⁴	Methanol			



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Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	Fl λ -max
640	610-675	Nd:YAG(532) ¹⁴³	MeOH(osc), MeOH(amp)	5.8 x 10 ⁻⁴ (osc), 7.9 x 10 ⁻⁵ (amp)		
640	605-672	Nd:YAG(end-p,532) ⁵⁷	Methanol	5.8 x 10 ⁻⁴ (osc), 7.9 x 10 ⁻⁵ (amp)		
640	610-675	Nd:YAG(532) ¹⁴³	MeOH(osc), MeOH(amp)	5.8 x 10 ⁻⁴ (osc), 7.9 x 10 ⁻⁵ (amp)		
642	605-678	Nd:YAG(532) ²³⁰	Methanol	270mg/L (osc), 90mg/L (amp)		
642	611-685	Nd:YAG(532) ¹¹⁰	PC/Methanol, 1/4	5 x 10 ⁻⁴		
643	616-678	Nd:YAG(355) ¹¹⁰	PC/Methanol, 1/4	4 x 10 ⁻⁴		
645		Nd:YAG(532)→F548(544) ¹⁴⁸	Methanol	6.4 x 10 ⁻⁴ (osc), 9.3 x 10 ⁻⁵ (amp)		
650	618-678	Nd:YAG(d,m-l,QS) ¹⁶⁸				
650	624-689	Nd:YAG(532) ¹⁴³	DMSO(osc), MeOH(amp)	5.8 x 10 ⁻⁴ (osc), 7.9 x 10 ⁻⁵ (amp)		
651	626-685	Nd:YAG(532) ²³⁹	DMSO	9.9 x 10 ⁻⁴		
669	624-686	Nd:YAG(532) ¹³⁴	DMSO			
620	585-670	N ₂ (DFDL) ¹⁶²	Me-THF	5 x 10 ⁻³		
630	605-660	N ₂ (337) ¹⁴⁷	DMSO	4.7 x 10 ⁻³ (DCM), 3.4 x 10 ⁻³ (R590)		
637	600-695	N ₂ (337) ¹⁵³	DMSO	5.8 x 10 ⁻³		
654	601-716	N ₂ (337) ⁷³	DMSO	3.3 x 10 ⁻³		
655	620-705	N ₂ (337) ¹⁸³	DMSO	35mg/20ml		
670	640-710	N ₂ (DFDL) ¹⁶²	DMSO	7 x 10 ⁻³		
636	596-700	Ar(488,514) ^{17,178}	EPH	1.5 x 10 ⁻³		
640	600-695	Ar(514) ¹²⁴	BzOH/EG,3/7	2.1 x 10 ⁻³		
640	605-680	Ar(m-l,514) ⁸⁹	BzOH/EG	~3 x 10 ⁻³		
655	605-725	Ar(488) ¹⁰⁸	BzOH/EG,4/6	1.5 x 10 ⁻³		
655	608-727	Ar(457-514) ^{17,108}	BzOH/EG,2/3	1.5 x 10 ⁻³		
661	610-709	Ar(Blue/Green) ¹²³	LO/EG/BzOH,15/5/1 + COT			
663	605-690	Ar(C699-21,SF) ²²⁹	EPH	3.3 x 10 ⁻³		
640	610-715	Ar(C699-21) ²⁵⁹	EG/BzOH			
644	598-677	Cu(511) ¹⁷⁵	Methanol	2 x 10 ⁻³		
649	615-688	Cu(511,578) ²⁸	DMSO	2.6 x 10 ⁻³		

BzOH = benzyl alcohol; DMF = dimethylformamide; DSS = dodecyl sodium sulfate; EG = ethylene glycol; EtOH = ethanol;
LO = Ammonyx LO; MeOH = methanol; Me-THF = methyltetrahydrofuran; s = dimethylsulfoxide (DMSO);

REFERENCES:



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