

DTTC IODIDE

Synonym: 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-benzothiazolium iodide

Catalog No.: 08630

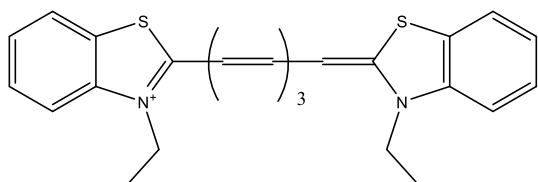
CAS No.: 3071-70-3

Chemical Formula: C₂₅H₂₅N₂S₂.I

MW: 544.51

Appearance: Green-yellow crystals

Structure:

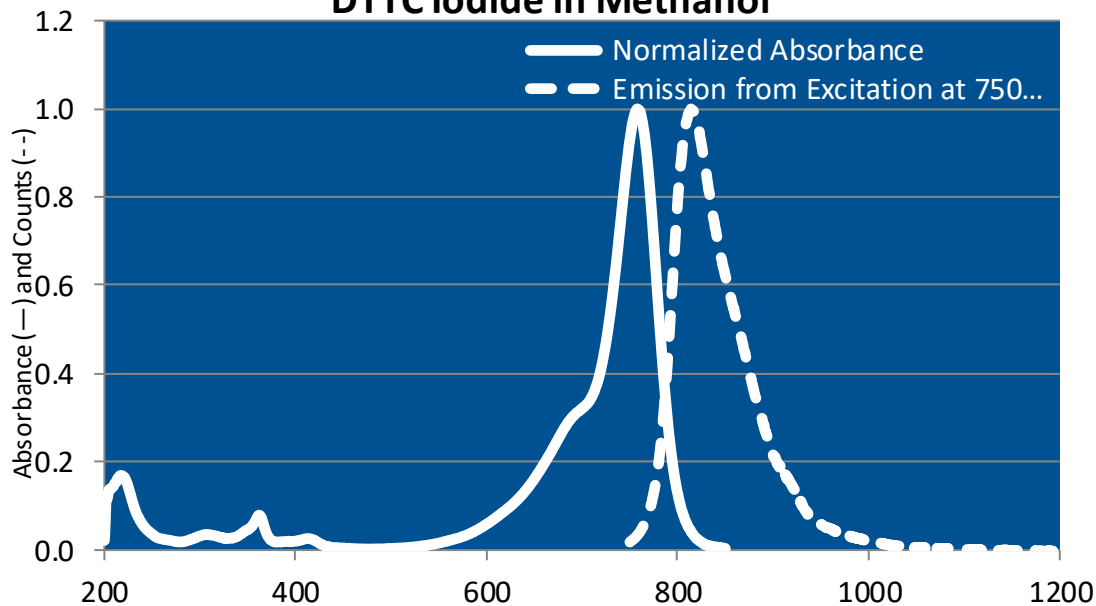


Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
889		FL ^{39,40}	DMSO	2 x 10 ⁻⁴	763 ^e	815 ^e
	815-870	FL→R640(660) ³	EG	1.5 x 10 ⁻⁴		
	820-900	FL→KR620(Red) ⁶²	DMSO			
849	828-883	XeCl(308) ¹¹⁴	DMSO	7.8 x 10 ⁻⁴		
879	836-925	XeCl(308) ¹¹⁰	DMSO	7 x 10 ⁻⁴		
828	813-859	Nd:YAG(532) ⁵³	DMSO			
834		Nd:YAG→C720(700) ⁶⁶	DMSO	2 x 10 ⁻⁴		
852	834-892	N ₂ (337) ¹¹⁴	DMSO	1.1 x 10 ⁻³		
855	840-877	N ₂ (337) ¹¹¹	DMSO	1.2 x 10 ⁻³		
876	(bb)	N ₂ (337) ⁹⁷	DMSO	2 x 10 ⁻¹		
	840-870	Kr ^{36b}	DMSO			
	790-871	Ruby(694) ⁹⁶	DMSO	6 x 10 ⁻⁵		
829		Ruby(694) ⁹⁵	Acetone	1 x 10 ⁻⁴		
	816-855	Ruby(694) ³⁵	DMSO			

DMSO = Dimethylsulfoxide; EG = Ethylene Glycol; e = ethanol

DTTC Iodide in Methanol



The information presented above is believed to be accurate but is not a specification. The customer is fully responsible for determining the suitability of this product for use in their application. Exciton, Inc. does not represent that the information is sufficient or complete for any specific application.

Quantum Yields and Lifetimes

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
760	810	0.38	Dimethylsulfoxide		CD-3

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