

LD 690 PERCHLORATE

Synonym: N-ethyl-3-(ethylimino)-2,8-dimethyl-3H-phenoxazin-7-amine monoperchlorate; Oxazine 4

Catalog No.: 06910

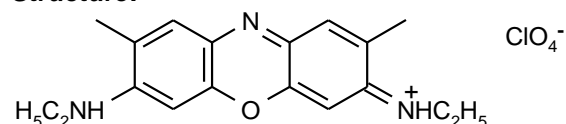
CAS No.: 41830-81-3

MW: 395.84

Chemical Formula: C₁₈H₂₁N₃O.HClO₄

Appearance: Dark green crystals

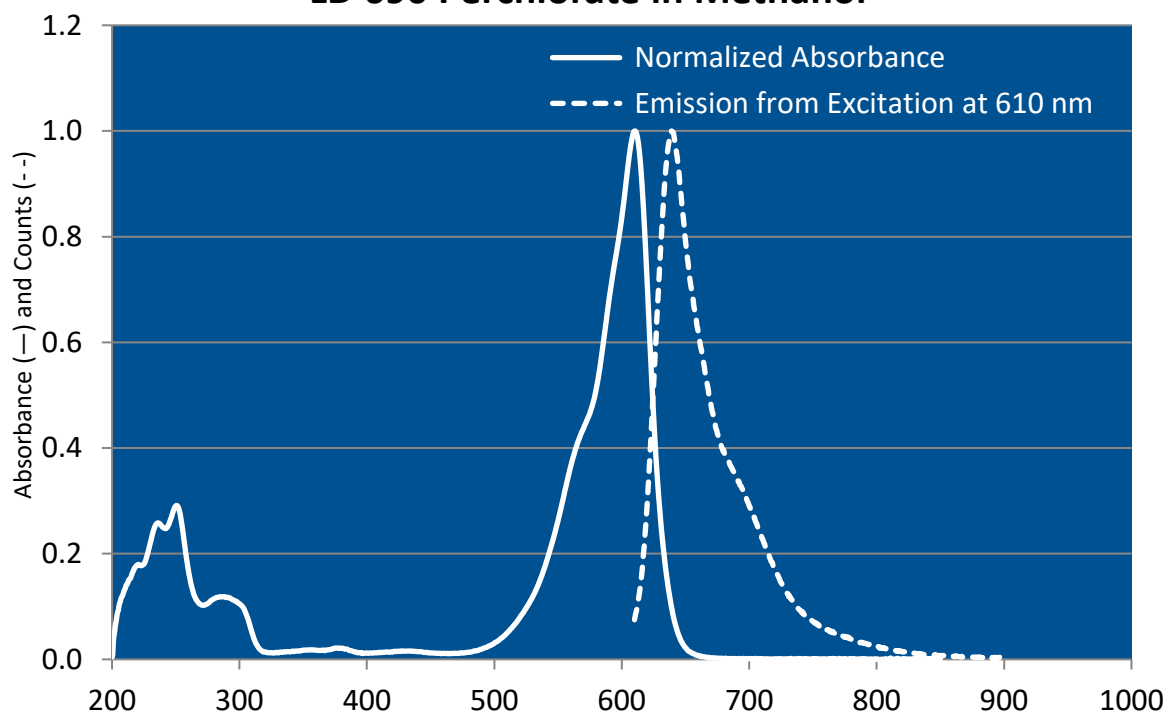
Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
682	660-725	FL ⁶⁹	Methanol	8 x 10 ⁻⁵	616 ^e	625 ^m
688	655-706	XeCl(308) ¹¹⁰	Methanol	1.3 x 10 ⁻³		
660		Nd:YAG(532) ⁵⁶	Methanol	2.8 x 10 ⁻⁴		
668	655-705	N ₂ (337) ⁵⁰	Ethanol	1.8 x 10 ⁻³ (LD690)		
				2.8 x 10 ⁻³ (R610)		
670	660-716	N ₂ (337) ⁵⁰	DMSO/EtOH,2/1	2.5 x 10 ⁻³ (LD690),		
				2.8 x 10 ⁻³ (R610)		
696	663-710	N ₂ (337) ¹⁸³	DMSO	19.9mg/20ml		
	696-780	Kr(Red) ⁹³	EG/MeOH	2.8 x 10 ⁻³		

e = ethanol; m = methanol; DMSO = dimethylsulfoxide, EtOH = ethanol; MeOH = methanol

LD 690 Perchlorate 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
614	651	0.62/0.87d	Ethanol		O-2 ffl = ROH/ROD; d=deuterium
609	646	0.63/0.89d	Methanol		O-2 ffl = ROH/ROD; d=deuterium

REFERENCES:

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For a current list of biology, biological stain, or biochemistry references for LD 690 Perchlorate from PubMed, click on the following link:

[LD 690 or Oxazine 4](#)