

Q-SWITCH 5

Synonym: 8-[[3-[(6,7-dihydro-2,4-diphenyl-5H-1-benzopyran-8-yl)methylene]-1-cyclohexen-1-yl]methylene]-5,6,7,8-tetrahydro-2,4-diphenyl-1-benzopyrylium perchlorate

Catalog No.: 10900

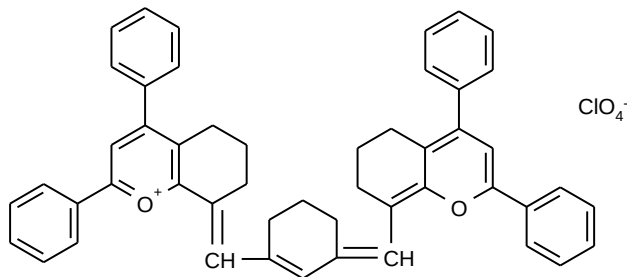
CAS No.: 61010-01-3

MW: 775.34

Chemical Formula: C₅₀H₄₃O₂.ClO₄

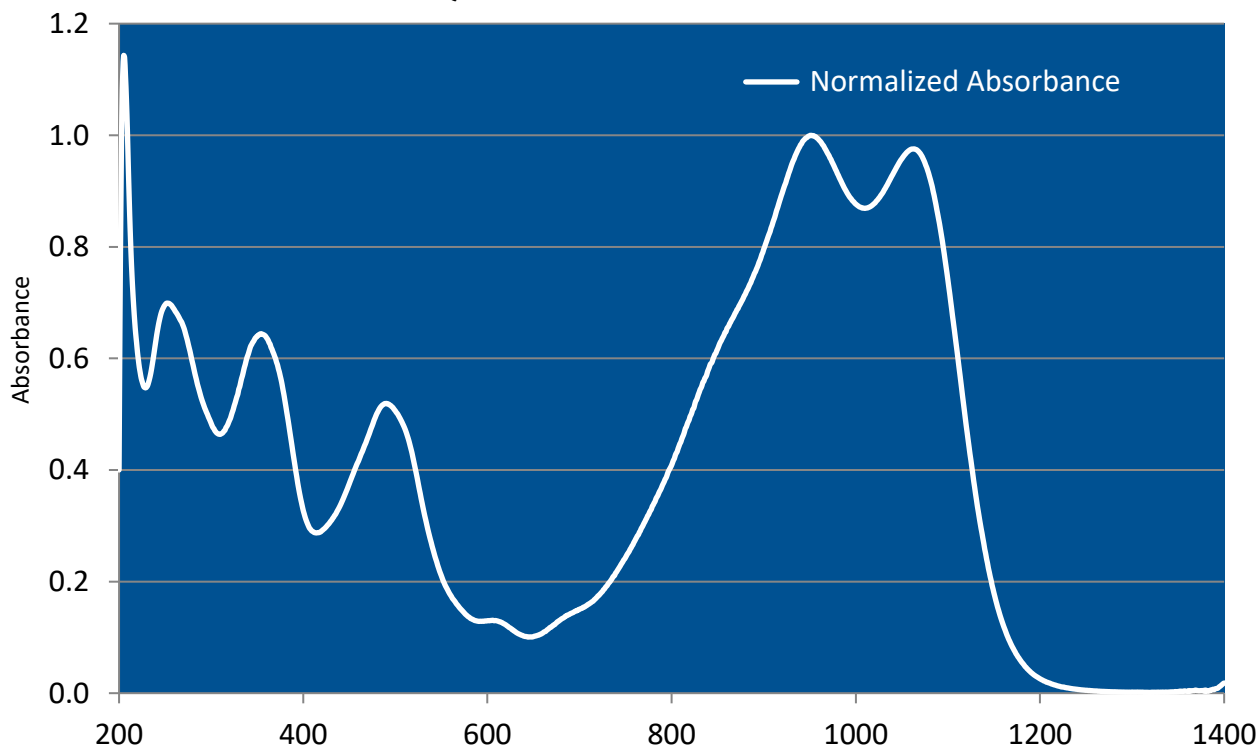
Appearance: Black powder

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
1330	1180-1530	Nd:YAG(1064,m-l) ¹⁹²	Benzyl alcohol	5 x 10 ⁻⁴	1090	1170
	1210-1340	Nd:YAG(1064,m-l, compressed to 2 ps) ²⁴⁰		7 x 10 ⁻⁴		

Q-Switch 5 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
1090	1170	5x10 ⁻⁴	Dichloroethane	2.7ps	ML-1

REFERENCES:

192. Generation of Tunable Picosecond Pulses Between 1.18 μ m and 1.53 μ m in a Ring Laser Configuration using Dye No. 5, H. Lobentanzer and H.J. Polland, *Optics Commun.*, 62(1), 35 (1987)
240. Continuous-wave Synchronously Pumped Femtosecond Dye Laser at 1.3 μ m, F.S. Choa, Y. Liu and P.L. Liu, *Optics Lett.* 14, 222 (1989)
- ML-1. Sn-State Lifetime Determination of Dyes, F. Graf and A. Penzkofer, *Optical & Quantum Electronics* 17 (53), 1985, <https://doi.org/10.1007/BF00619994>

For a current list of biology, biological stain, or biochemistry references for Q-Switch 5 from PubMed, click on the following link:

[Q-Switch 5](#)