



PO Box 31126
Dayton, OH 45437
Tel: 937.252.2989 Fax: 937.258.3937
E-mail: info@exciton.com
www.exciton.com

OXAZINE 720 PERCHLORATE

Synonym: 5-(ethylimino)-10-Methyl-5H-benzo[a]phenoxazin-9-ethylamine monoperchlorate; Oxazine 170

Catalog No.: 07210

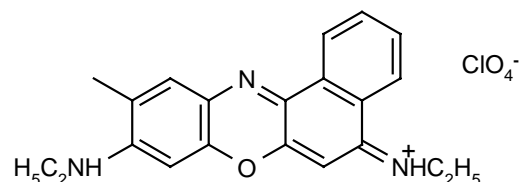
CAS No.: 62669-60-7

Chemical Formula: C₂₁H₂₂N₃O·ClO₄

MW: 431.87

Appearance: Green granules

Structure:



Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
690	670-730	FL ⁶⁹	Methanol	4 x 10 ⁻⁵	627 ^e	650 ^e
692	676-698	FL ³	Methanol	5 x 10 ⁻⁵	620 ^m	
699	675-711	FL ³	Ethanol	5 x 10 ⁻⁵		
705	675-730	FL ¹²	MeOH/H ₂ O(acidic)	7.5 x 10 ⁻⁵ (OX720) + (R590) ⁷²		
710	690-740	FL ²³	Methanol			
668	653-694	XeCl(308) ¹¹⁴	Ethanol	2.5 x 10 ⁻⁴ (OX720), 8.6 x 10 ⁻⁴ (R640)		
677	661-724	XeCl(308) ¹¹⁴	Methanol	1.8 x 10 ⁻³		
700	668-728	XeCl(308) ¹¹⁴	Methanol	4.6 x 10 ⁻³		
668	649-700	Nd:YAG(532) ⁵⁷	Methanol			
671	613-708	Nd:YAG(532) ⁵³	Methanol			
672		Nd:YAG(532) ³³	Ethanol	4 x 10 ⁻⁴ (OX720)+ (R610) or (SR640)		
673	664-690	Nd:YAG(355) ¹⁰⁹	Ethanol	1.5 x 10 ⁻³		
678	658-723	N ₂ (337) ⁹⁰	Ethanol	1 x 10 ⁻³		
702	660-725	N ₂ (337) ¹¹¹	Ethanol/DMSO,96/4	2.3 x 10 ⁻³ (OX720), 2.5 x 10 ⁻³ (R610)		
675	660-712	Cu(511,578) ¹⁷⁵	Methanol	3 x 10 ⁻⁴		

DMSO = Dimethylsulfoxide; MeOH = Methanol; e = ethanol; m = methanol



PO Box 31126
Dayton, OH 45437
Tel: 937.252.2989 Fax: 937.258.3937
E-mail: info@exciton.com
www.exciton.com

OXAZINE 720 PERCHLORATE

REFERENCES:

3. Phase-R Corporation, Box G-2 Old Bay Rd., New Durham, NH 03855
12. Chromatix, 560 Oak Meade Parkway, Sunnyvale, CA 94086
23. New Highly Efficient Laser Dyes, K.H. Drexhage and G.A. Reynolds, VII Int. Quantum Electronics Conf., Paper F. 1, San Francisco, CA., USA, 1974
33. A High-Power Dye Laser at 6700-7700 Å, K. Kato, *Optics Commun.*, 19(1), 18 (1976)
53. Continuum, 3150 Central Expressway, Santa Clara, CA 95051, formerly, Quantel International
57. Quanta-Ray, Note: Quanta-Ray is now incorporated as a part of Spectra-Physics, 1250 W. Middlefield Road, Mountain View, CA 94039
69. Candela Laser Corporation, 530 Boston Post Road, Wayland, MA 01778-1833
90. Jobin Yvon, 16-18 rue du Canal B.P. 118, 91163 Longjumeau Cedex France
109. Tuning Ranges of 355 nm Pumped Dyes from 410-715 nm, D.M. Guthals and J.W. Nibler, *Optics Commun.*, 29(3), 322 (1979)
111. Lasing Properties of Several Near-IR Dyes for a Nitrogen Laser-Pumped Dye Laser with an Optical Amplifier, B.M. Pierce and R.R. Birge, *IEEE J. Quantum Electron.*, QE18, 1164 (1982)
114. Optimization of Spectral Coverage in an Eight-Cell Oscillator-Amplifier Dye Laser Pumped at 308nm, F. Bos, *Appl. Optics*, 20, 3553 (1981)
175. CVL-Pumped Dye Laser For Spectroscopic Application, M. Broyer, J. Chevalere, G. Delacretaz and L. Wöste, *App. Phys. B*, 35, 31 (1984)

For a current list of biology, biological stain, or biochemistry references for Oxazine 720 Perchlorate from PubMed, click on the following link:

[Oxazine 720 or Oxazine 170](#) (all references are under Oxazine 170 as of May 2006)