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## COUMARIN 504T

**Synonym:** 2,3,6,7-tetrahydro-1,1,7,7-tetramethyl 11-oxo-1H,5H,11H-[1]benzopyrano[6,7,8-ij]quinolizine-10-carboxylic acid, ethyl ester; Coumarin 314T

**Catalog No.:** 03141

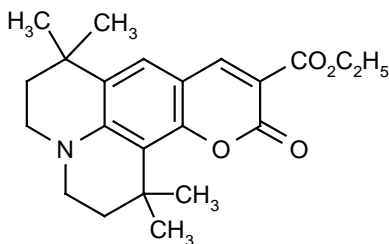
**CAS No.:** 113869-06-0

**MW:** 369.35

**Chemical Formula:** C<sub>22</sub>H<sub>27</sub>NO<sub>4</sub>

**Appearance:** Bright yellow crystals

**Structure:**



Max. Lasing Wavelength (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
490	485-510	N <sub>2</sub> (337)	Ethanol	5 x 10 <sup>-3</sup>	435 <sup>e</sup>	478 <sup>e</sup>
480		XeCl(308) <sup>246</sup>	PMMA	5.4 x 10 <sup>-3</sup>		
511	478-525(bb)	XeCl(308) <sup>245</sup>	Ethanol	5 x 10 <sup>-3</sup>		

e = ethanol; m = methanol

### REFERENCES:

245. Lasing Characteristics of New Coumarin-Analog Dyes: Broadband and Narrow-Linewidth Performance, C.H. Chen, J. Fox, F. Duarte, and J. Ehrlich, *Appl. Optics* **27**(3), 443 (1998); For Coumarin 504T/314T: broadband efficiency 18.1% versus Coumarin 504 at 15.3%. For Coumarin 521T/334T: broadband efficiency 12.4% versus 10.2% for Coumarin 521/Coumarin 334. Half-life measurements (coaxial flashlamp pumped dye laser) indicated Coumarin 504T/314T (1708kJ/L) to be about twice of Coumarin 504/314 (647kJ/L).
246. Solid-State Active Media Based on Aminocoumarins, T. Kopylova, G. Mayer, A. Reznichenko, L. Samsonova, V. Svetlichnyi, S. Dolotov, E. Ponomarenko, and M. Tavrizova, *Quantum Elec.* **33**(6), 498 (2003)