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## COUMARIN 545

**Synonym:** 10-(2-benzothiazolyl)-2,3,6,7-tetrahydro-1H,5H,11H-[1]benzopyrano[6,7,8-ij]quinolizin-11-one

**Catalog No.:** 05451

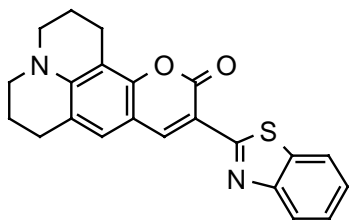
**CAS No.:** 85642-11-1

**MW:** 374.46

**Chemical Formula:** C<sub>22</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>S

**Appearance:** Red-orange crystals

**Structure:**



### Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Abs $\lambda$ -max	FI $\lambda$ -max
547	541-554	FL(triaxial) <sup>157</sup>	Ethanol	480 <sup>e</sup>	519 <sup>e</sup>
555	547-564	FL(triaxial) <sup>157</sup>	EtOH/H <sub>2</sub> O, 1/1		

EtOH/H<sub>2</sub>O=ethanol/water, e=ethanol

### REFERENCES:

157. Lasing and Fluorescent Characteristics of Nine, New, Flashlamp-Pumpable, Coumarin Dyes in Ethanol:Water, A.N. Fletcher, D.E. Bliss and J.M. Kauffman, *Optics Commun.*, 47(1), 57 (1983)

For a current list of biology, biological stain, or biochemistry references for Coumarin 545 from PubMed, click on the following link:

[Coumarin 545](#)