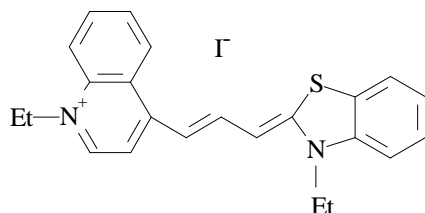


## DQTCI

**Catalog No.:** 06220  
**CAS No.:** 2642-25-3  
**Chemical Formula:**  $C_{23}H_{23}N_2S.I$   
**Structure:**

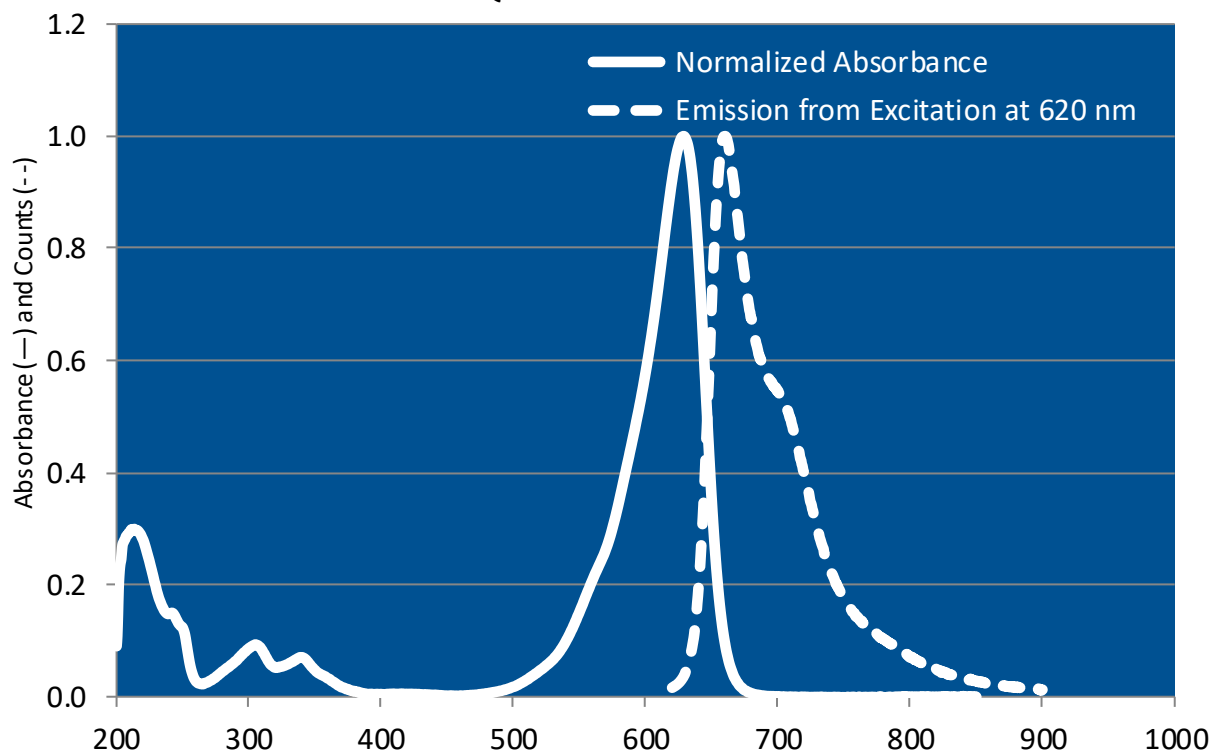


**Appearance:** Dark green crystalline needles  
**Color in MeOH:** Probably bluish green in solution  
**MW:** 484.41  
 **$\lambda_{abs}$ :** 629 (ethanol)  
**Solubility:** Methanol – yes (exact solubility not determined)  
Ethylene glycol – yes (exact solubility not determined)

**Source for IR laser:** Excited state lifetime 53ps (ethanol) reference 74 (below), thus, probably not a good laser dye!

**Use:** Mainly as a saturable absorber for Rhodamine 610, Rhodamine 640 and Sulforhodamine 640

### DQTCI 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.



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**REFERENCES (from our Saturable Absorbers):**

74. Substituent and Environmental Effects on the Picosecond Lifetimes of the Polymethine Cyanine Dyes, W. Sibbett, J.R. Taylor and D. Welford, *IEEE J. Quantum Electron.*, QE-17(4), 500 (1981)