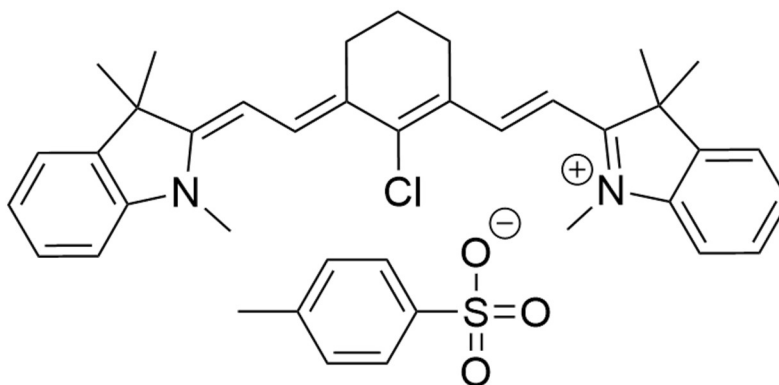


IR 775 Tosylate FP 5194

General

IR 775 is a near-infrared (NIR) cyanine sensitizing dye designed to increase the energy absorption outside the normal range of the photoinitiator. This increases the effective spectral range, transferring this energy to the photoinitiator. This is especially effective with HABIs.

Chemical Structure



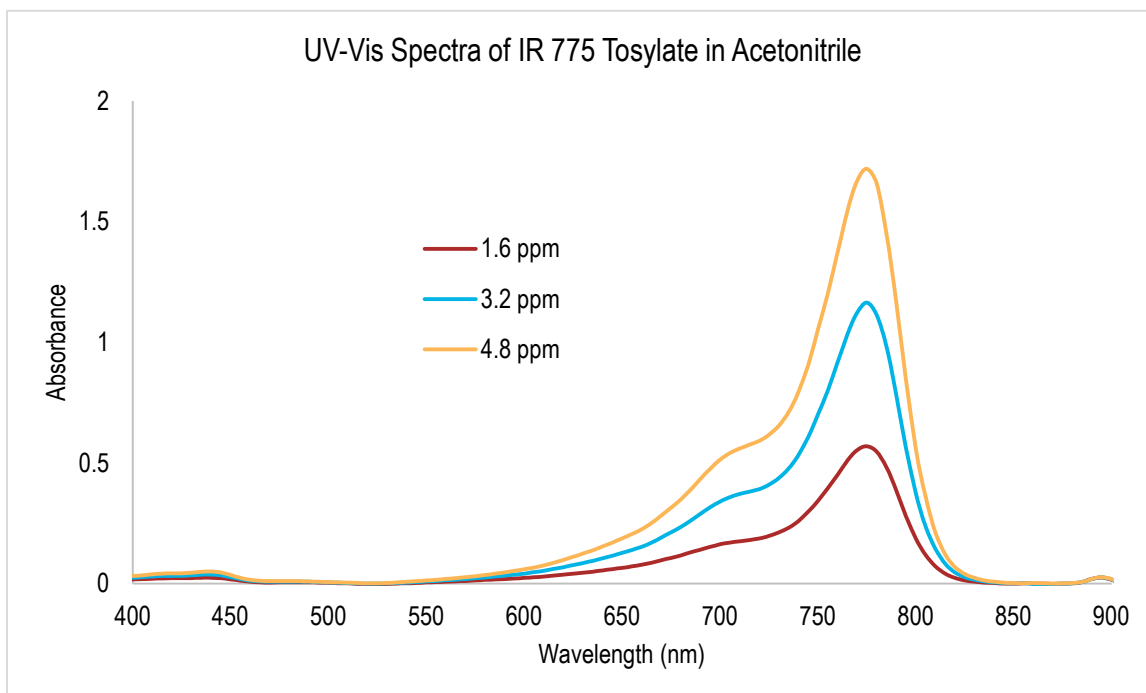
Product Information

Product Type:	NIR Sensitizer; Sensitizing Dye; Heat Sensitive Dye; IR Absorber
CAS Number:	205744-92-9
Chemical Name:	3 <i>H</i> -Indolium, 2-[2-[2-chloro-3-[2-(1,3-dihydro-1,3,3-trimethyl-2 <i>H</i> -indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,3,3-trimethyl-, 4-methylbenzenesulfonate (1:1)
Synonyms:	3 <i>H</i> -Indolium, 2-[2-[2-chloro-3-[(1,3-dihydro-1,3,3-trimethyl-2 <i>H</i> -indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,3,3-trimethyl-, salt with 4-methylbenzenesulfonic acid (1:1)
Applications:	Lithographic Printing; Computer to Plate Laser Applications;
Key Features:	Photosensitizer; NIR Absorbance; Pairs well with HABIs

Typical Properties

Appearance:	Granular Green Metallic
λ Max:	775nm
Melting Point:	191°C (Capillary)
Molecular Weight:	655.29g/mole

Absorption Spectrum



Safety and Handling

Keep the container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Handle in a well-ventilated area with suitable protective equipment. Use local exhaust if dust is generated.

IR 775 is sensitive to visible light and heat. Exposure to sunlight should be avoided.

Detailed information is provided in the SDS.

For additional information visit our website www.hampfordresearch.com.