

NEAR INFRARED LASER DYE FOR PRINTING APPLICATIONS

ADS775MI

INTRODUCTION

American Dye Source, Inc. offers from gram to kilogram high purity near infrared laser dyes for research and production purposes. We also provide custom synthesis of new infrared dyes according to the customer's specifications.

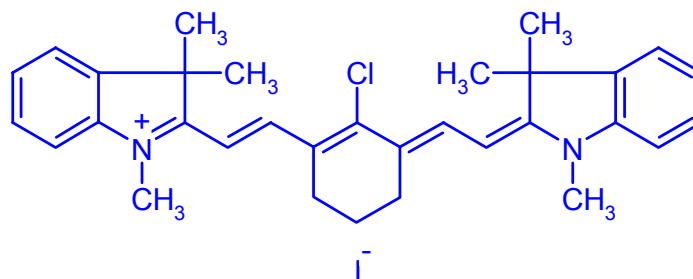
DESCRIPTION

Near Infrared Laser Dye **ADS775MI** is 2-[2-[2-chloro-3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,3,3-trimethylindolium iodide]. This near infrared dye is highly soluble in alcohols and polar solvents, such as NMP, DMF and DMSO. **ADS775MI** is an ideal dye for use in security printings, lithographic printing plates and silver films.

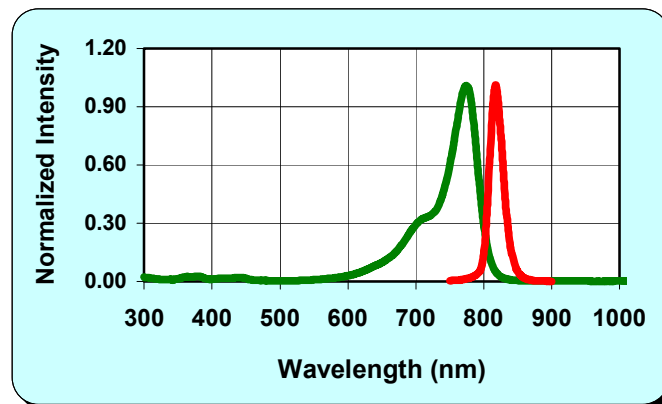
TECHNICAL DATA

- ❑ Appearance: Golden Greenish Crystal
- ❑ CAS Register Number: 56289-67-9
- ❑ Purity: > 99.0 %
- ❑ Formula Weights: 611.02 g/mol
- ❑ Melting Temperature: 269 – 271 °C
- ❑ Absorption Maximum: 775 nm (MeOH)
- ❑ Absorption Coefficient: 2.5×10^5 L/mol.cm
- ❑ Photoluminescent Maximum: 817 nm

STRUCTURE



SPECTRA



Absorption and photoluminescent spectra of ADS775MI in methanol solution

CONTACT INFORMATION

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