



## NEAR INFRARED LASER DYE FOR PRINTING APPLICATIONS

# ADS775PI

### 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.

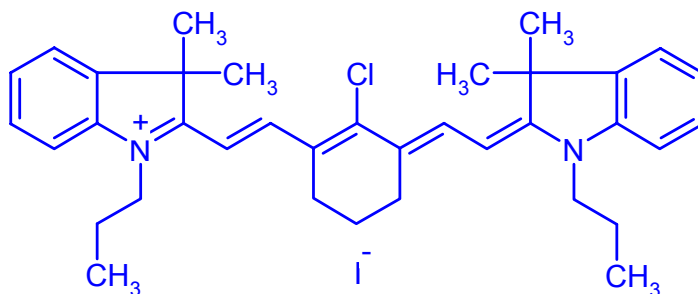
### DESCRIPTION

Near Infrared Laser Dye **ADS775PI** is 2-[2-[2-chloro-3-[(1,3-dihydro-3,3-dimethyl-1-propyl-2H-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-3,3-dimethyl-1-propylindolium iodide]. This near infrared dye is highly soluble in alcohols and polar solvents, such as NMP, DMF and DMSO. **ADS775PI** is an ideal dye for use in security printings, lithographic printing plates and silver films.

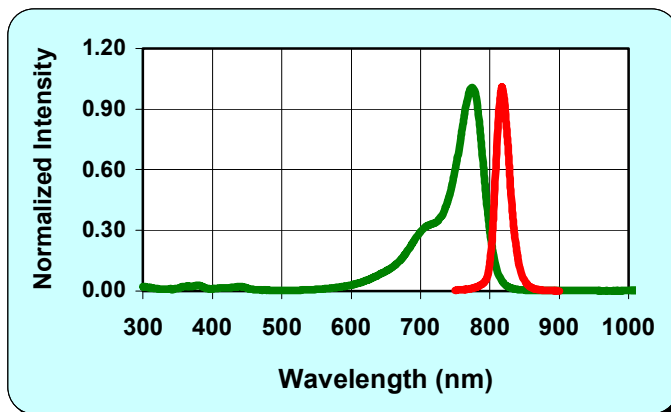
### TECHNICAL DATA

- Appearance: Golden Greenish Crystal
- CAS Register Number: 207399-07-3
- Purity: > 99.0 %
- Formula Weights: 667.12 g/mol
- Melting Temperature: 232 – 234 °C
- Absorption Maximum: 775 nm (MeOH)
- Absorption Coefficient:  $2.5 \times 10^5$  L/mol.cm
- Photoluminescent Maximum: 818 nm

### STRUCTURE



### SPECTRA



Absorption and photoluminescent spectra of ADS775PI in methanol solution

### CONTACT INFORMATION

#### American Dye Source, Inc.

555 Morgan Boulevard  
 Baie d'Urfe, Quebec, Canada H9X 3T6  
 Tel. 514 457-0070  
 Fax 514 457-0071  
 Website: [www.adsdyes.com](http://www.adsdyes.com)  
 E-mail: [info@adsdyes.com](mailto:info@adsdyes.com)

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