

## NEAR INFRARED LASER DYE FOR PRINTING APPLICATIONS

### ADS775PP

#### INTRODUCTION

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

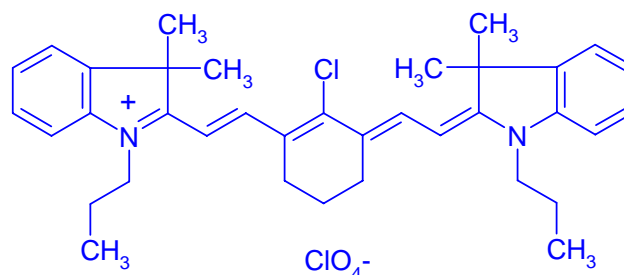
#### DESCRIPTION

Near Infrared Laser Dye **ADS775PP** 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-propyl-1H-indolium perchlorate. This near infrared dye is soluble in methanol, as well as many other solvents. **ADS775PP** is an ideal dye for use in security printings, lithographic printing plates and silver films.

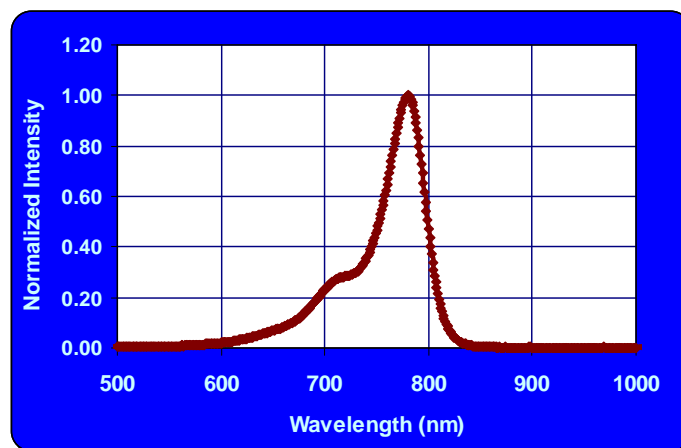
#### TECHNICAL DATA

- ❑ Appearance: Golden brown powder
- ❑ CAS Registry Number: N/A
- ❑ Chemical Formula:  $C_{36}H_{44}N_2O_4Cl_2$
- ❑ Formula Weight: 639.66 g/mol
- ❑ Melting Temperature: 259 - 263 °C (Dec.)
- ❑ Absorption Maximum: 780 nm (methanol)
- ❑ Absorption Coefficient:  $2.9 \times 10^5$  L/mol.cm

#### STRUCTURE



#### UV-VIS-NIR SPECTRUM



Absorption spectrum of ADS775PP in methanol

#### 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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