

NEAR INFRARED LASER DYE FOR PRINTING APPLICATIONS

ADS800AT

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.

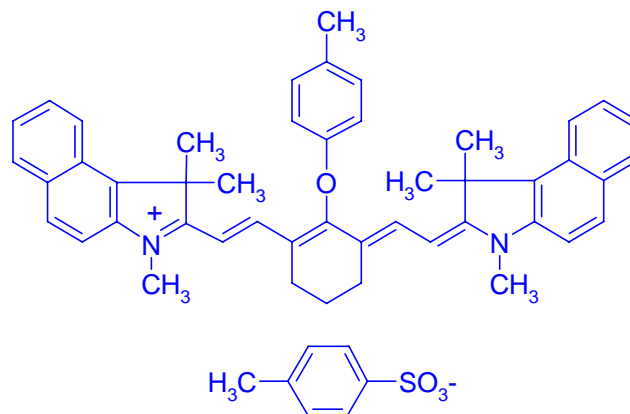
DESCRIPTION

Near Infrared Laser Dye **ADS800AT** is 2-[2-[2-(4-Methylbenzeneoxy)-3-[2-(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,1,3-trimethyl-1H-benz[e]indolium 4-methylbenzenesulfonate. This near infrared dye is soluble in methanol, as well as many other solvents. **ADS800AT** is an ideal dye for use in security printings, lithographic printing plates and silver films.

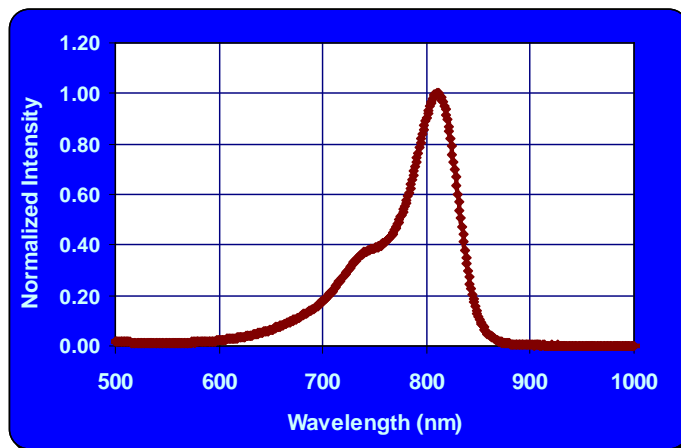
TECHNICAL DATA

- ❑ Appearance: Dark green powder
- ❑ CAS Registry Number: N/A
- ❑ Chemical Formula: $C_{54}H_{54}N_2O_4S$
- ❑ Formula Weight: 827.09 g/mol
- ❑ Melting Temperature: 222 - 224 °C (Dec.)
- ❑ Absorption Maximum: 811 nm (methanol)
- ❑ Absorption Coefficient: 2.1×10^5 L/mol.cm

STRUCTURE



UV-VIS-NIR SPECTRUM



Absorption spectrum of ADS800AT in methanol

CONTACT INFORMATION

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