

SOLVENT SOLUBLE NEAR INFRARED ABSORPTION DYE

ADS830AT

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.

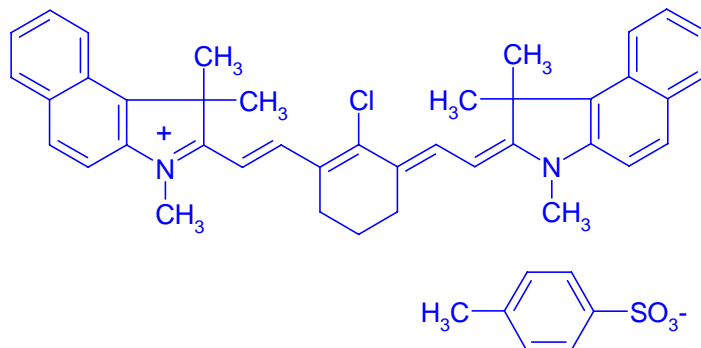
DESCRIPTION

ADS830AT is 2-[2-[2-Chloro-3-[2-(1,3-dihydro-1,1,3-trimethyl-2H-benzo[e]indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,1,3-trimethyl-1H-benzo[e]indolium-4-methylbenzenesulfonate. **ADS830AT** is soluble in methanol, as well as other solvents. **ADS830AT** is an ideal dye for use in security printings, lithographic printing plates, and many other applications.

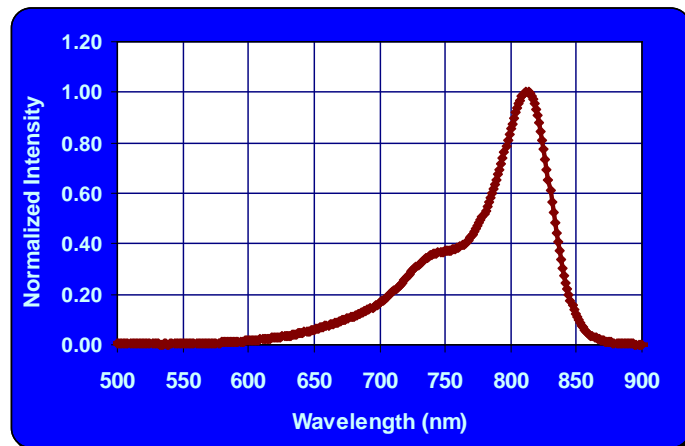
TECHNICAL DATA

- ❑ Appearance: Dark brown powder
- ❑ CAS Registry No.: 134127-48-3
- ❑ Chemical Formula: $C_{47}H_{47}ClN_2O_3S$
- ❑ Purity: > 98.0 %
- ❑ Formula Weight: 755.41 g/mol
- ❑ Decomposition Temp.: > 220 °C
- ❑ Absorption Maximum: 812 nm
- ❑ Absorption Coefficient: 2.4×10^5 L/mol cm

STRUCTURE



UV-VIS-NIR SPECTRUM



Absorption spectrum of ADS830AT 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
E-mail: info@adsdyes.com

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