



WATER SOLUBLE NEAR INFRARED ABSORPTION DYE

ADS780WS

INTRODUCTION

American Dye Source, Inc. offers gram to kilogram quantities of near infrared absorption dyes, for research and production purposes. Custom synthesis of near infrared absorption dyes is also available.

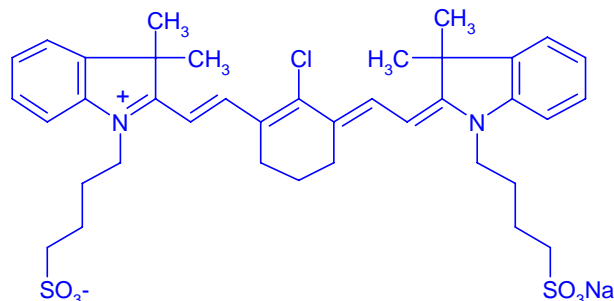
DESCRIPTION

ADS780WS is 2-[2-[2-(4-Methylbenzeneoxy)-3-[(1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-3,3-di-methyl-1-(4-sulfo-butyl)-1H-benz[e]indolium, inner salt, monosodium salt. **ADS780WS** is highly soluble in water and methanol, as well as other solvents. This NIR dye is ideal for use in security printings, lithographic printing plates, and many other applications.

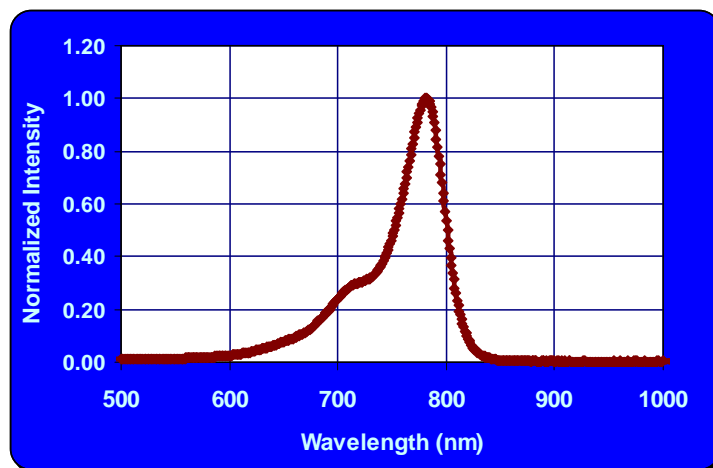
TECHNICAL DATA

- ❑ Appearance: Green crystals
- ❑ Purity: > 98.0%
- ❑ Formula weight: 667.12 g mol⁻¹
- ❑ Decomposition temperature: > 230 °C
- ❑ Absorption maximum: 782 nm (MeOH)
- ❑ Absorption coefficient: 1.7 x 10⁵ L/mol cm

STRUCTURE



SPECTRA



Absorption spectra of ADS780WS in methanol solution

CONTACT INFORMATION

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