



## 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.

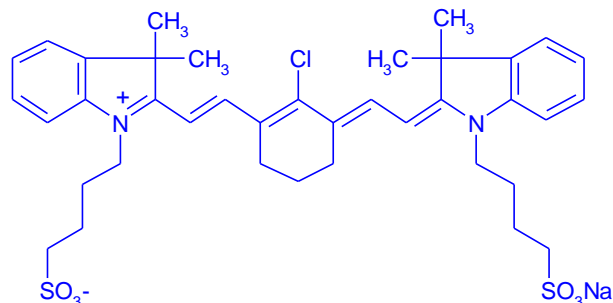
### DESCRIPTION

**ADS780WS** is 2-[2-[2-Chloro-3-[2-(1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-1H-indolium, inner salt, monosodium, 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.

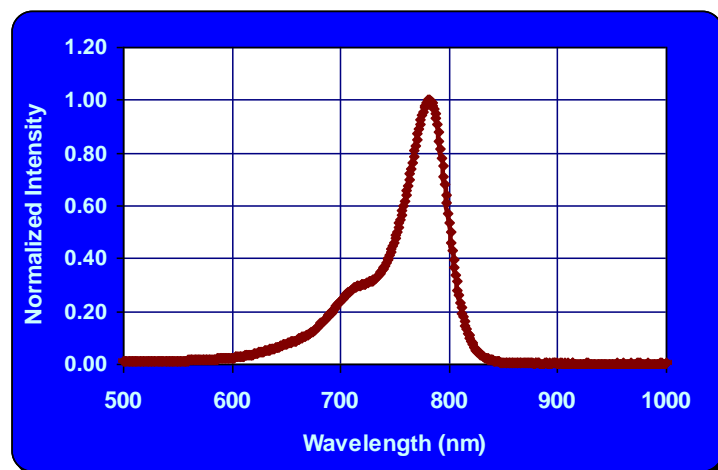
### TECHNICAL DATA

- ❑ Appearance: Green crystals
- ❑ Purity: > 98.0%
- ❑ Formula weight: 667.12 g mol<sup>-1</sup>
- ❑ Decomposition temperature: > 230 °C
- ❑ Absorption maximum: 782 nm (MeOH)
- ❑ Absorption coefficient: 1.7 x 10<sup>5</sup> L/mol cm

### STRUCTURE



### SPECTRA



Absorption spectra of ADS780WS in methanol solution

### CONTACT INFORMATION

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