

## ORGANIC SOLUBLE NEAR INFRARED ABSORPTION NICKEL COMPLEX ADS827MC

### 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.

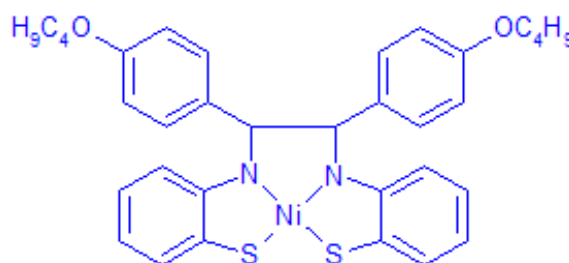
### DESCRIPTION

Near infrared absorption metal complex **ADS827MC** is very soluble in organic solvents, such as tetrahydrofuran (THF), 1,3-dioxane, methanol, ethanol, cyclohexanone and chlorobenzene. **ADS827MC** is an ideal dye for use in security printings, near infrared filters, and organic thin film ambipolar transistors.

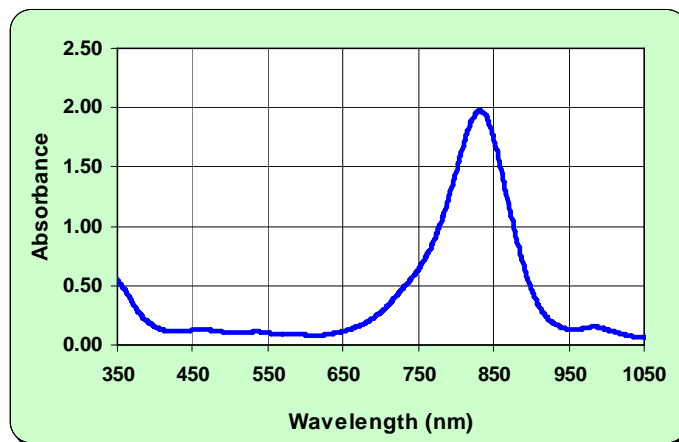
### TECHNICAL DATA

- ❑ Appearance: Dark gray crystals
- ❑ CAS Register Number: Not Available
- ❑ Purity: > 98.0 %
- ❑ Formula Weight: 576.8 g/mol
- ❑ Melting Temperature: 223 °C (Dec.)
- ❑ Absorption Maximum: 827 nm (THF)
- ❑ Absorption Coefficient:  $3.4 \times 10^4$  L/mol.cm

### STRUCTURE



### UV-VIS-NIR SPECTRUM



*Absorption spectrum of ADS827MC in THF solution*

### CONTACT INFORMATION

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