

## NEAR INFRARED ABSORPTION METAL COMPLEX

# ADS890MC

### 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

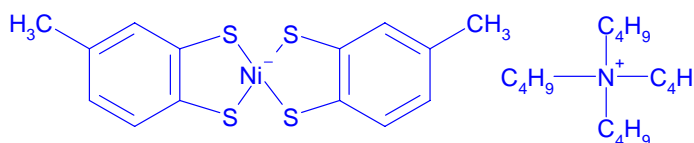
**ADS890MC** is Tetrabutylammonium bis(4-methyl-1,2-benzenedithiolato)nickelate.

**ADS890MC** is very soluble in acetone, NMP, as well as many other solvents. **ADS890MC** is an ideal dye for use in security printings, near infrared filters, and organic thin film ambipolar transistors.

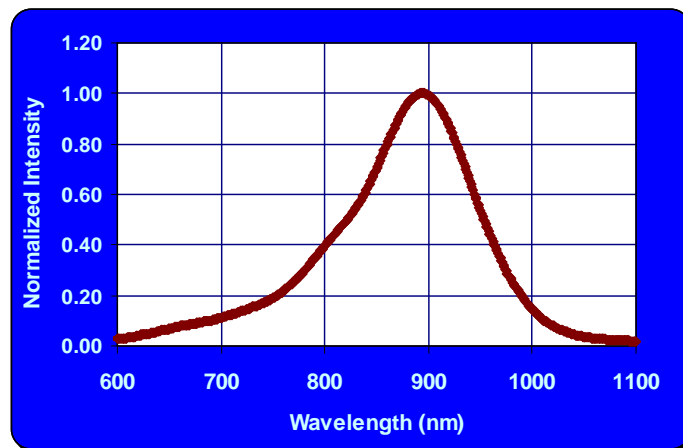
### TECHNICAL DATA

- Appearance: Dark gray powder
- CAS Registry Number: 15492-42-9
- Chemical Formula:  $C_{30}H_{48}N_4S_4Ni$
- Purity: > 98.0 %
- Formula Weight: 609.65 g/mol
- Melting Temperature: 149 - 151 °C (dec.)
- Absorption Maximum: 892 nm (acetone)
- Absorption Coefficient:  $1.53 \times 10^4$  L/molcm

### STRUCTURE



### UV-VIS-NIR SPECTRUM



Absorption spectrum of ADS890MC in acetone

### CONTACT INFORMATION

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