

## NEAR INFRARED ABSORPTION METAL COMPLEX

### ADS870MC

#### 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

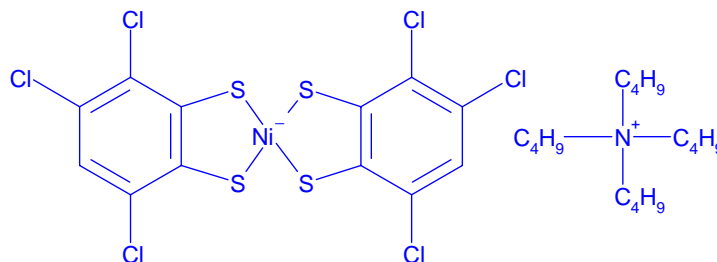
**ADS870MC** is Tetrabutylammonium bis(3,4,6-trichloro-1,2-benzene-dithiolato)nickelate.

**ADS870MC** is very soluble in acetone, as well as many other solvents. **ADS870MC** is an ideal dye for use in security printings, near infrared filters, and organic thin film ambipolar transistors.

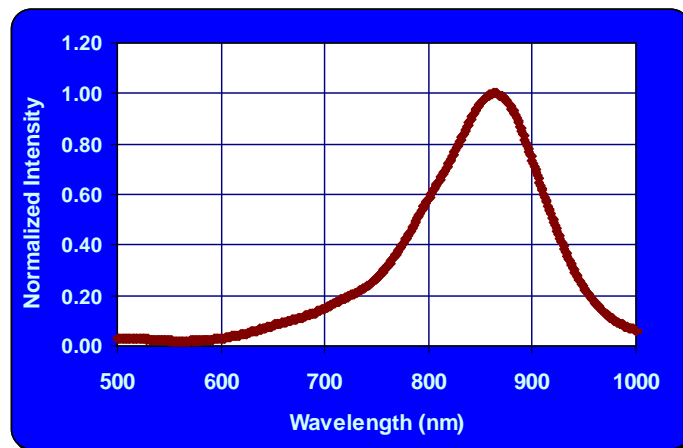
#### TECHNICAL DATA

- ❑ Appearance: Dark green powder
- ❑ Chemical Formula:  $C_{28}H_{38}N S_4 Ni$
- ❑ Purity: > 98.0 %
- ❑ Formula Weight: 790.32 g/mol
- ❑ Melting Temperature: 138 – 140 °C
- ❑ Absorption Maximum: 865 nm (acetone)
- ❑ Absorption Coefficient:  $1.47 \times 10^4$  L/mol cm

#### STRUCTURE



#### UV-VIS-NIR SPECTRUM



*Absorption spectrum of ADS870MC in acetone*

#### CONTACT INFORMATION

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