

NEAR INFRARED ABSORPTION METAL COMPLEX

ADS920MC

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.

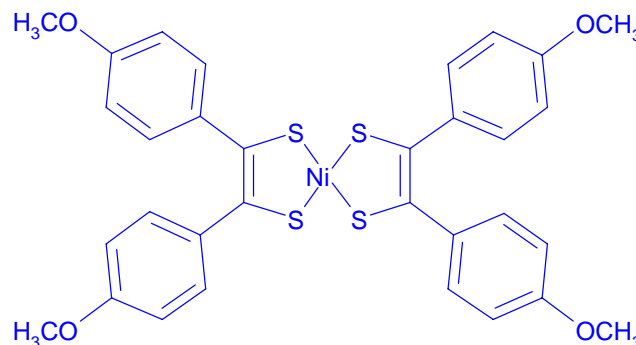
DESCRIPTION

ADS920MC is Bis(4,4'-dimethoxydithiobenzil) nickel. **ADS920MC** is very soluble in acetone, NMP, as well as many other solvents. **ADS920MC** is an ideal dye for use in security printings, near infrared filters, and organic thin film ambipolar transistors.

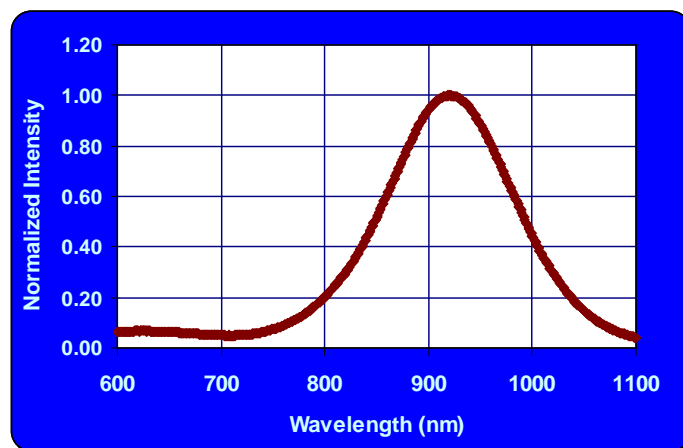
TECHNICAL DATA

- ❑ Appearance: Dark gray powder
- ❑ Chemical Formula: $C_{32}H_{28}O_4S_4Ni$
- ❑ Purity: > 98.0 %
- ❑ Formula Weight: 663.50 g/mol
- ❑ Melting Temperature: 305 °C (dec.)
- ❑ Absorption Maximum: 920 nm (acetone)
- ❑ Absorption Coefficient: 1.59×10^4 L/mol cm

STRUCTURE



UV-VIS-NIR SPECTRUM



Absorption spectrum of ADS920MC in acetone

CONTACT INFORMATION

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