

# Technical Data Sheet

Product Code: **IR Dye 5630**

Product Description: **858nm NIR Dye**

## Properties

Appearance: **blue/black free flowing powder**

Melting Point: **286°C – 288°C**

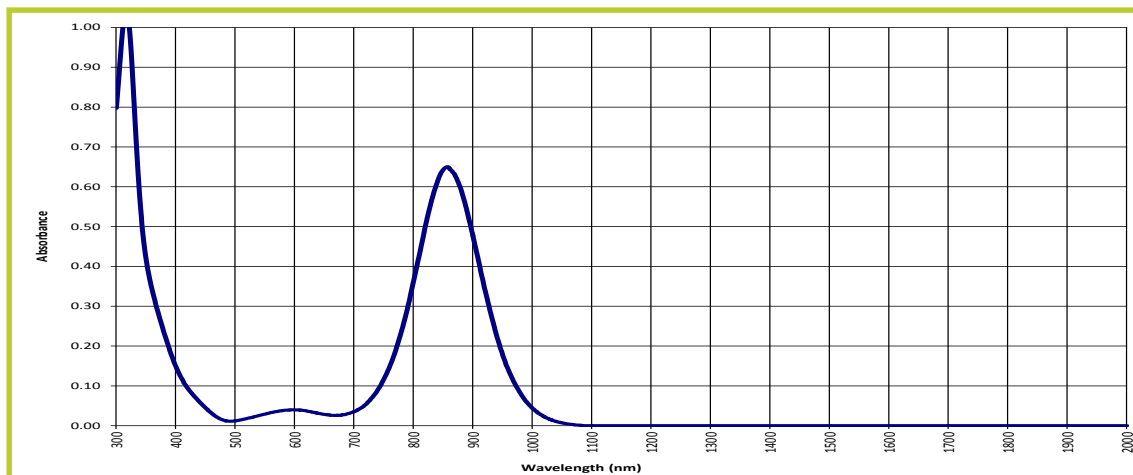
Lambda Max: **858 nm**

Absorptivity: **57 (L g<sup>-1</sup> cm<sup>-1</sup>)**

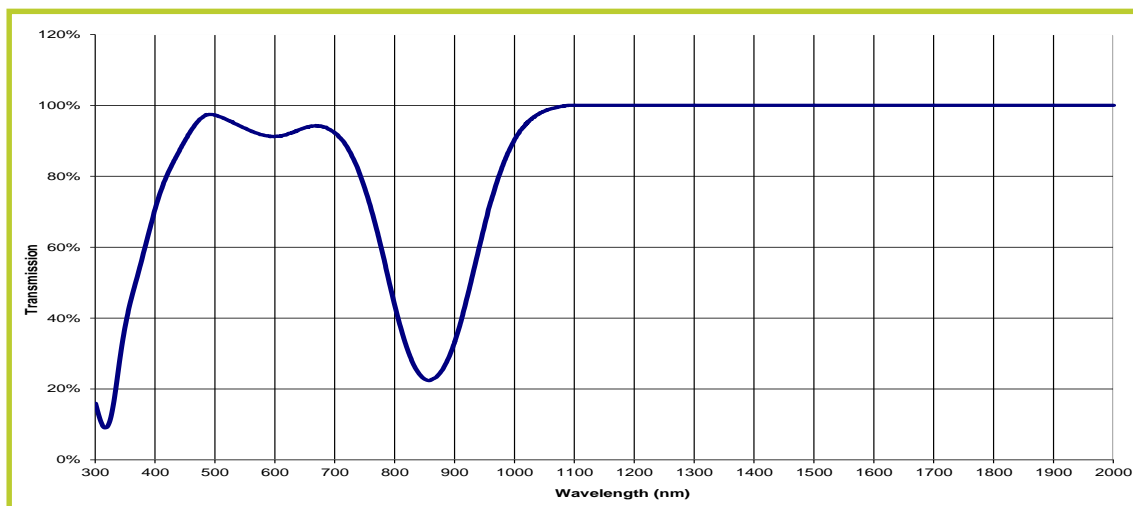
Solubility (grams/100 grams of solvent):

**MEK = 0.31, Xylene = 0.23, Cyclohexanone = 0.41, THF = 1.45**

**Absorption Curve**



**Transmission Curve**



Due to its' excellent balance of properties, **IR Dye 5630** finds use in a broad range of applications where the absorption of Infrared light, and the transmission of Visible light is important:

**Acrylic Infrared Filters** – IR Dye 5630 has excellent solubility in PMMA and provided an excellent broad band absorption of infrared energy.

**Laser Eye Protection** – The broad absorption across the near infrared region, makes IR Dye 5630 a candidate for broad band Laser Protective Eyewear. The excellent transmission of visible light is an important added benefit in Laser Eye Protection applications.

**Inks and Coatings** – Due to its' excellent solubility in a broad range of organic solvents, including methanol, IR Dye 5630 finds use in applications where the absorption of Infrared energy is needed in inks and coatings. These applications range from heat shielding window films to security inks.

