

Technical Data Sheet

Product Code: **IR Dye 1422**

Product Description: 1057nm NIR Dye

Properties

Appearance: **brown free flowing powder**

Melting Point: **207°C – 209°C**

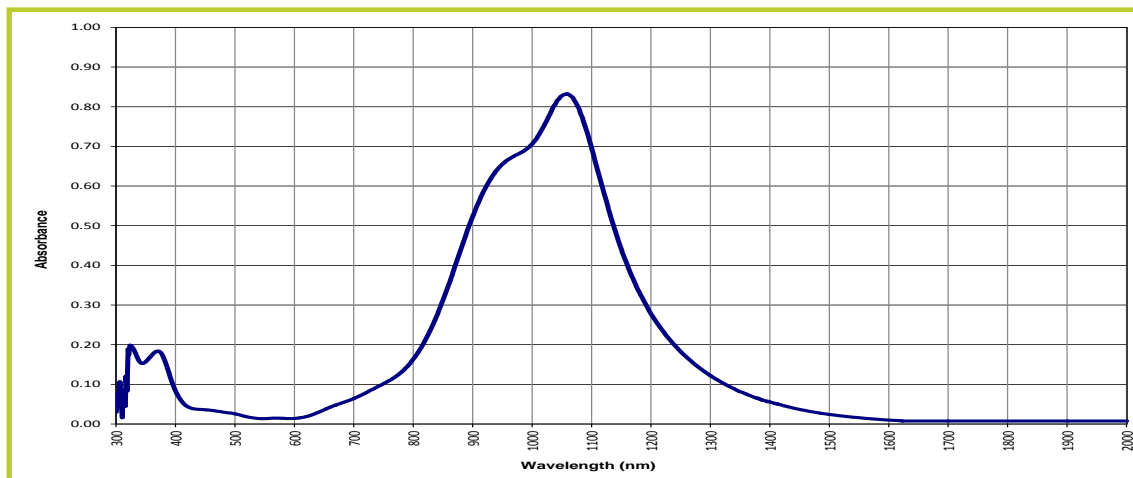
Lambda Max: **1057 nm**

Absorptivity: **81 (L g⁻¹ cm⁻¹)**

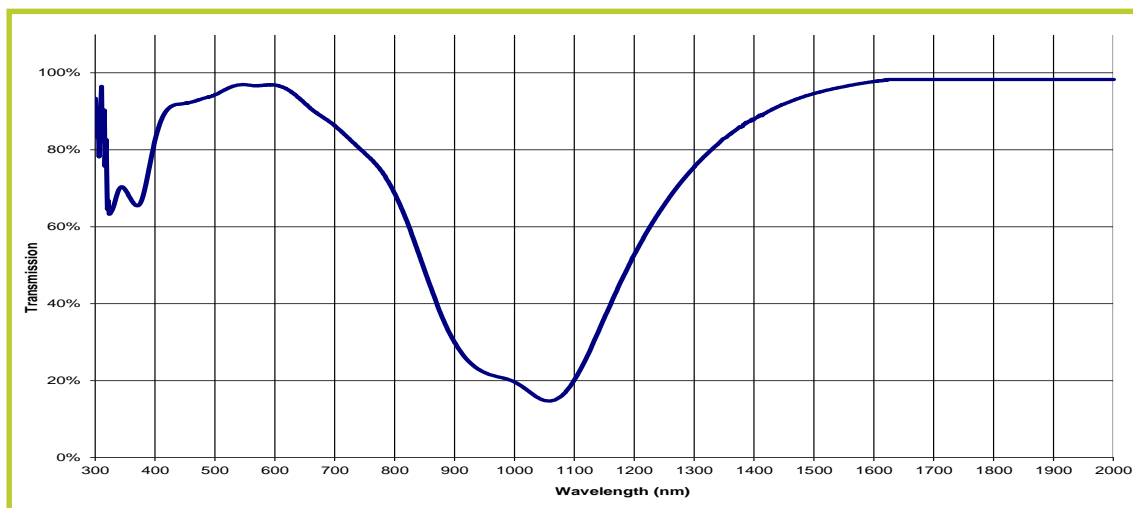
Solubility (grams/100 grams of solvent):

Acetone, Methanol

Absorption Curve



Transmission Curve



Due to its' excellent balance of properties, **IR Dye 1422** 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 1422 has excellent solubility in PMMA and provided an excellent broad band absorption of infrared energy.

Inks and Coatings – Due to its' excellent solubility in a broad range of organic solvents, including methanol, IR Dye 1422 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.



Adam Gates & Company