

# Technical Data Sheet

Product Code: **IR Dye 9807**

Product Description: 807nm NIR Dye

## Properties

Appearance: **red/orange free flowing powder**

Melting Point: **220°C – 222°C**

Lambda Max: **807 nm**

Absorptivity: **280 (L g<sup>-1</sup> cm<sup>-1</sup>)**

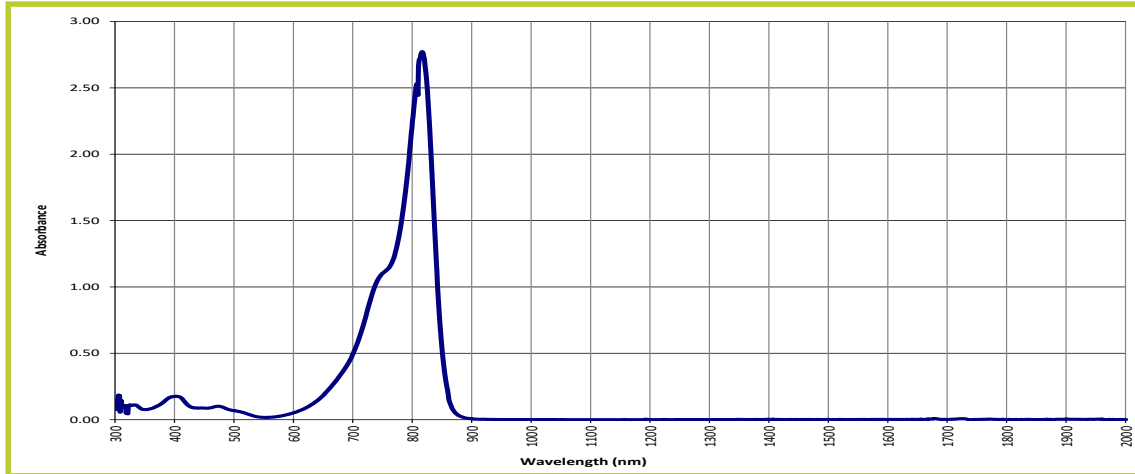
Solubility (grams/100 grams of solvent):

**Acetone >3.9**

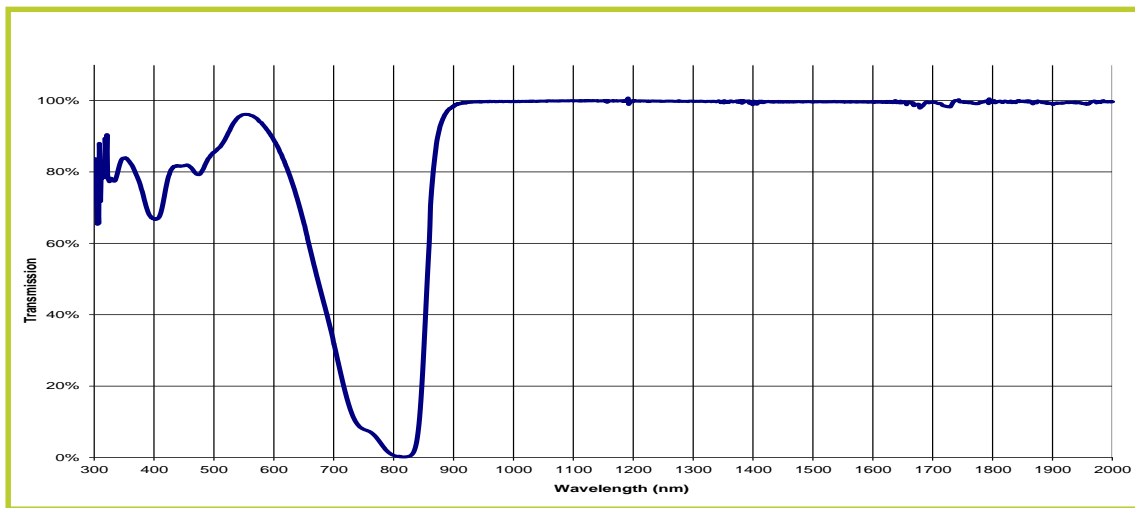
**Methanol >2.1**

**Cyclohexanone >3.2**

**Absorption Curve**



**Transmission Curve**



Due to its' excellent balance of properties, **IR Dye 9807** finds use in a broad range of applications where the absorption of Infrared light, and the transmission of Visible light is important:

**Laser Eye Protection** – Used to protect against the diode laser. **IR Dye 9807** has excellent thermal stability, and can be molded in polycarbonate of very low flow rates. The result is eye protection with the highest impact strength, complete laser blocking and excellent visible light protection.

**Band pass Filters**- **IR Dye 9807** provides a very sharp cut off around 810 nm. Excellent process ability in polycarbonate.

**Lithographic Printing Plates** – **IR Dye 9807** is an excellent initiator for the laser ablation of CTP lithographic printing plates. It is soluble in most commonly used polymers.



**Adam Gates & Company**