

American Dye Source, Inc.

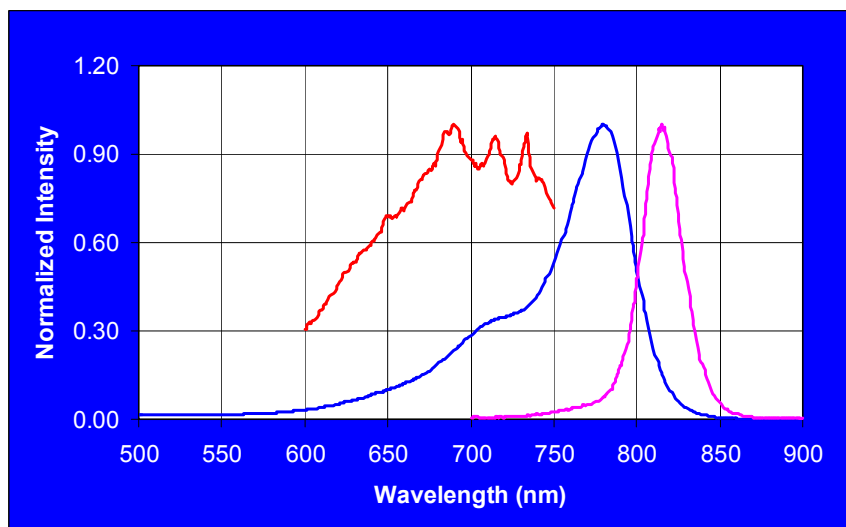
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**PRODUCT INFORMATION**

Product	Near Infrared Absorption and Fluorescent Dye ADS780HO
Chemical Name	2-[2-[2-Chloro-3-[(1,3-dihydro-3,3-dimethyl-1-(2-hydroxy)- ethyl-2H-Indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(2-hydroxy)ethyl-1H-idolium perchlorate
Appearance	Dark blue powder
Purity	98.0 %
Chemical Formula	C ₃₄ H ₄₀ N ₂ O ₆ Cl ₂
Melting Point	250 – 252 °C (with decomposition)
Molecular Weight	643.61 g mol ⁻¹
Absorption Maximum	780 nm (in methanol)
Absorption Coefficient	1.90 x 10 ⁵ L mol ⁻¹ cm ⁻¹
Excitation Maximum	690 nm (in methanol)
Fluorescent Maximum	815 nm (in methanol)
Chemical Structure	



Excitation, Absorption and Fluorescent Spectra of ADS780HO in methanol