

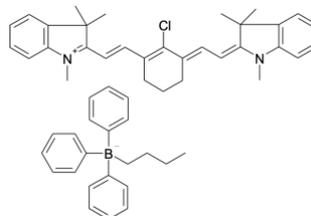
Product Description

Name: 3H-indolium, 2-[2-[2-chloro-3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,3,3-trimethyl-, butyltriphenylborate

CAS # not available

Formula: C₅₄H₆₀ClBN₂

Synonyms: H-Nu 780



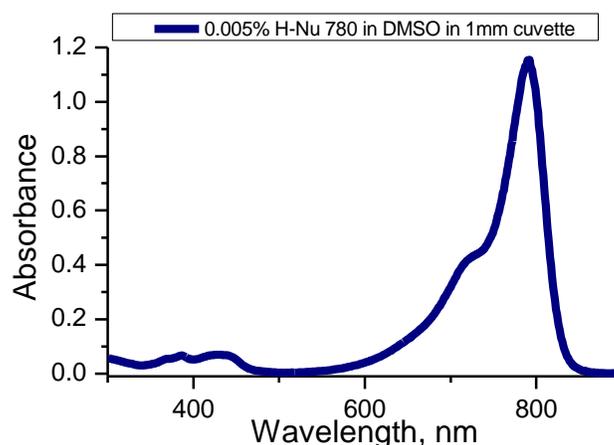
- H-Nu 780 can cure a wide range of acrylate resins via **free-radical** mechanism.
- H-Nu 780 is a commercial photoinitiator with a broad absorbance range of 650 nm to 810 nm ($\lambda_{\max} = 791\text{nm}$ in DMSO).

Advantages

- ✓ Good solubility in a variety of monomers
- ✓ Capable of curing a wide range of acrylates via free-radical mechanism
- ✓ Cure with infrared source (red handheld lasers and laser diodes)
- ✓ Cure through colored substrates (e.g. a red taillight assembly)
- ✓ Initiator bleaching upon light interaction can act as cure indicator (Borate V enhances cure and bleaching)

Typical Properties

Property	Test Method	Typical Value
Absorbance Maximum	UV Visible spectroscopy	791 nm
Appearance	Visual	Dark Green Powder



Applications Recommendations

- ✓ The recommended starting level of H-Nu 780 ranges from 0.15 to 1 wt.% in relation to the total amount of resin in a formulation.
- ✓ **Borate V** co-initiator at a 1:1 weight ratio is required. Additional amount of Borate V will increase the cure speed with and overall bleaching of the initiator in many formulations, so it is highly recommended.
- ✓ The H-Nu 780 is quite soluble in most acrylate resins, but it is recommended to predissolve photoinitiator and the Borate V (poor solubility in acrylates) in DMAA (N,N-Dimethylacrylamide, 2-3%) for ease of incorporation into your formulation.

Disclaimer

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