

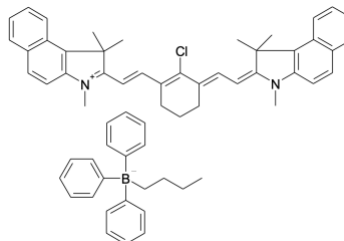
## Product Description

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

CAS # not available

Formula: C<sub>62</sub>H<sub>64</sub>BClN<sub>2</sub>

Synonyms: H-Nu 815



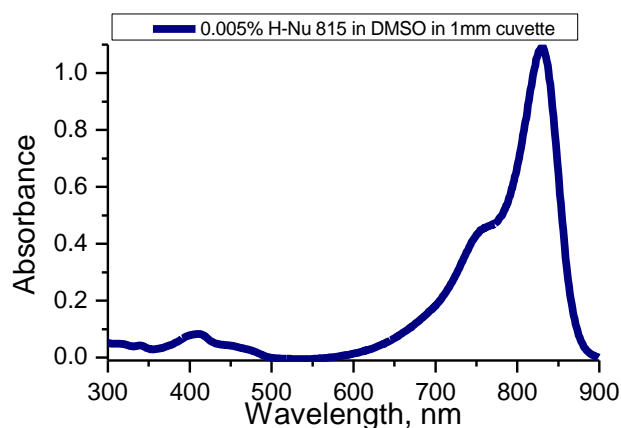
- H-Nu 815 can cure a wide range of acrylate resins via **free-radical** mechanism.
- H-Nu 815 is a commercial photoinitiator with a broad absorbance range of 690 nm to 850 nm ( $\lambda_{\max} = 828\text{nm}$  in DMSO).

## 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	828 nm
Appearance	Visual	Light Brown Powder



## Applications Recommendations

- ✓ The recommended starting level of H-Nu 815 ranges from 0.25 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 815 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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