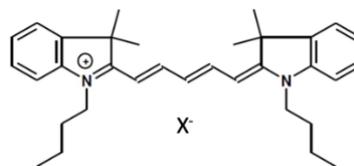


## Product Description

Name: H-Nu 640MP  
CAS # not available



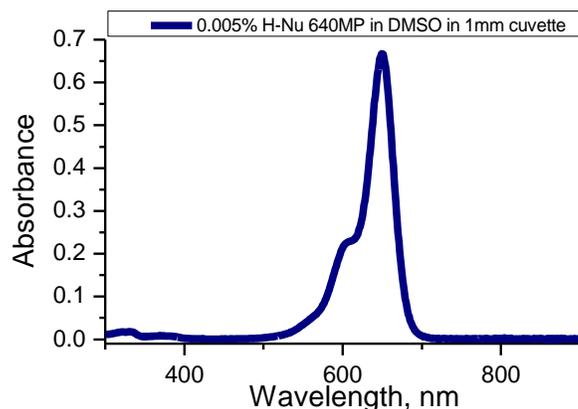
- H-Nu 640MP can cure a wide range of acrylate resins via **free-radical** mechanism.
- H-Nu 640MP is a commercial photoinitiator with a broad absorbance range of 570 nm to 670 nm ( $\lambda_{\max} = 650\text{nm}$  in DMSO).

## Advantages

- ✓ Good solubility in a variety of monomers
- ✓ Capable of curing a wide range of acrylates via free-radical mechanism
- ✓ Cure with red source (red handheld lasers and laser diodes)
- ✓ Cure through colored substrates (e.g. a red taillight assembly)
- ✓ Initiator bleaching (blue to pale/no color) 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 | 650 nm            |
| Appearance         | Visual                  | Light Blue Powder |



## Applications Recommendations

- ✓ The recommended starting level of H-Nu 640MP 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 not required but will increase the cure speed and overall bleaching of the initiator in many formulations, so it is highly recommended.
- ✓ The H-Nu 640MP 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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