Hampford Research INC
Handcrafted Solutions For A High-Tech World

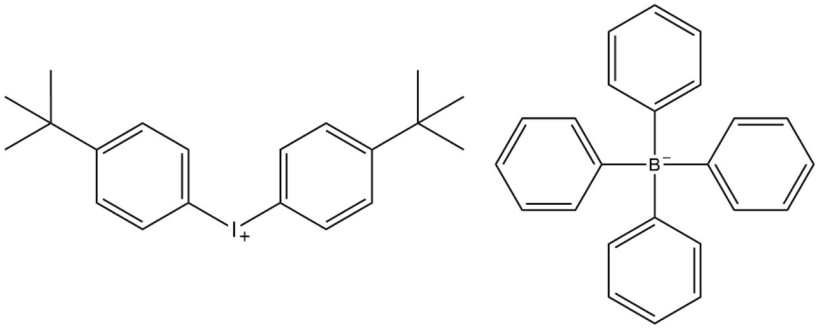
Bis 4-t-butyl Iodonium TPB
FP 5041

General

FP5041 is a highly soluble, heavy metal-free, iodonium UV photoacid generator (PAG) used to initiate the polymerization in epoxies, epoxy silicones, oxetanes, and many other monomers.

Because of its high solubility, FP5041 exhibits very little tendency to migrate to the surface, making it ideal for UV lithographic printing and varnishing applications. If faster cure speed is required, FP5041 can be sensitized with thioxanthones or anthracenes.

Chemical Structure



Product Information

Product Type:	Photoacid Generator
CAS Number:	131725-16-1
Product Name:	Bis(4-tert-butylphenyl)iodonium tetraphenylborate
Synonyms:	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, tetraphenylborate (1:1); FP5041
Key Features:	High Solubility; High-speed Photoacid Generator; Heavy Metal Free Formula; Non-yellowing

Typical Properties

Appearance:	White Solid
Purity:	97% Minimum
Melting Point:	135 - 155°C
Molecular Weight:	712.55 g/mole

Hampford Research, Inc. ● 54 Veterans Boulevard ● Stratford, CT 06615 ● (203) 375-1137 ● info@hampfordresearch.com

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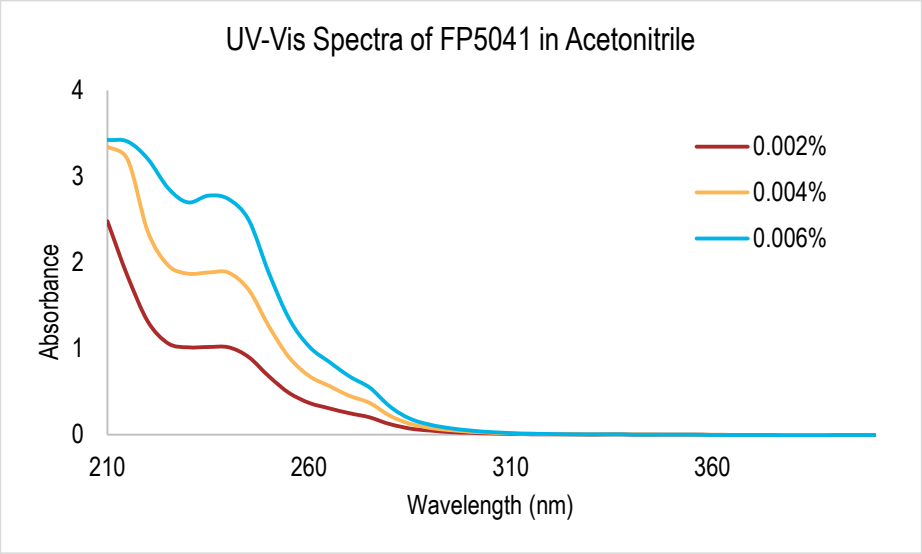
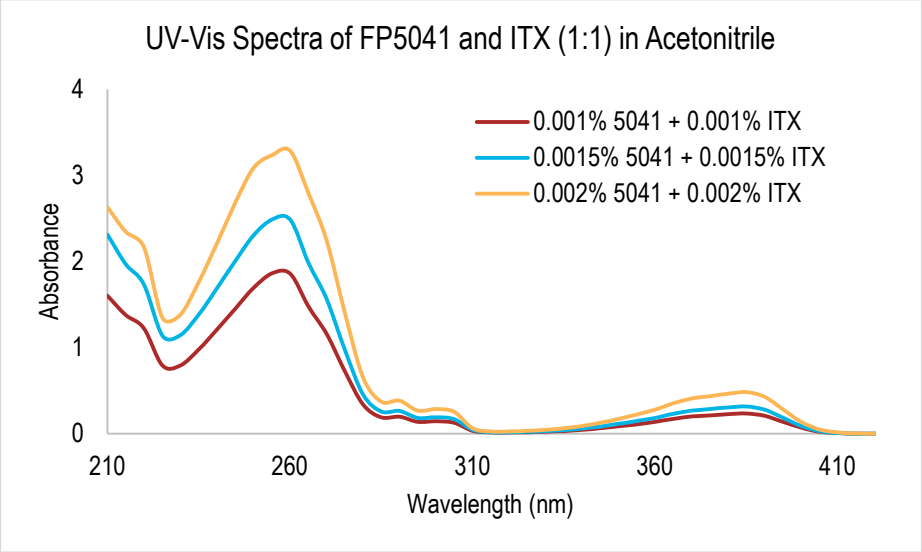
Absorption Spectrum





Suggested Starting Formulation

FP5041 should be added between 1-3% by mass, for use with broad spectrum mercury lamps. For LED applications, equal amounts of sensitizer (i.e. ITX or 9,10-DEA) should be used to help facilitate curing.

Safety and Handling

Keep container tightly closed. Store in a cool and dark place. Material is photosensitive, do not expose to sunlight or visible light. Handle in a well-ventilated area with suitable protective equipment. Detailed information is provided in the SDS. One year shelf-life when stored at 25°C.

For additional information visit our website www.hampfordresearch.com.

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