Hampford Research INC
Handcrafted Solutions For A High-Tech World

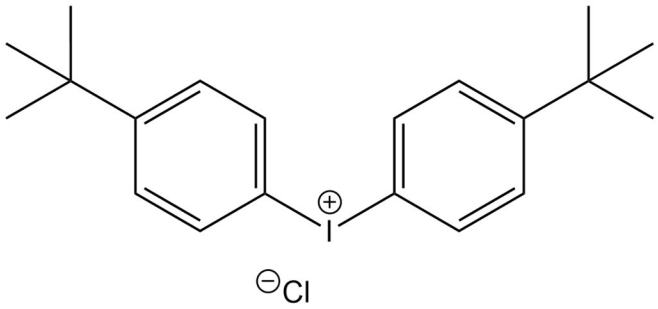
Bis 4-t-butyl Iodonium Chloride
FP 5213

General

FP5213 is a highly soluble, heavy metal-free, iodonium UV photoacid generator (PAG) used to initiate the photopolymerization in epoxies, epoxy silicones, oxetanes, and many other monomers.

Because of its high solubility, FP5213 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 or expanded wavelength absorbance, sensitizers can be used, such as thioxanthones, anthracenes, etc.

Chemical Structure



Product Information

Product Type:	Photoacid Generator
CAS Number:	5421-53-4
Product Name:	Bis(4-*tert*-butylphenyl)iodonium chloride
Synonyms:	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, chloride (1:1); FP5213
Key Features:	High Solubility; High-speed Photoacid Generator; Heavy Metal Free Formula; Non-yellowing

Typical Properties

Appearance:	White Solid
Purity:	Minimum
Melting Point:	182 – 186°C
Molecular Weight:	428.78 g/mole

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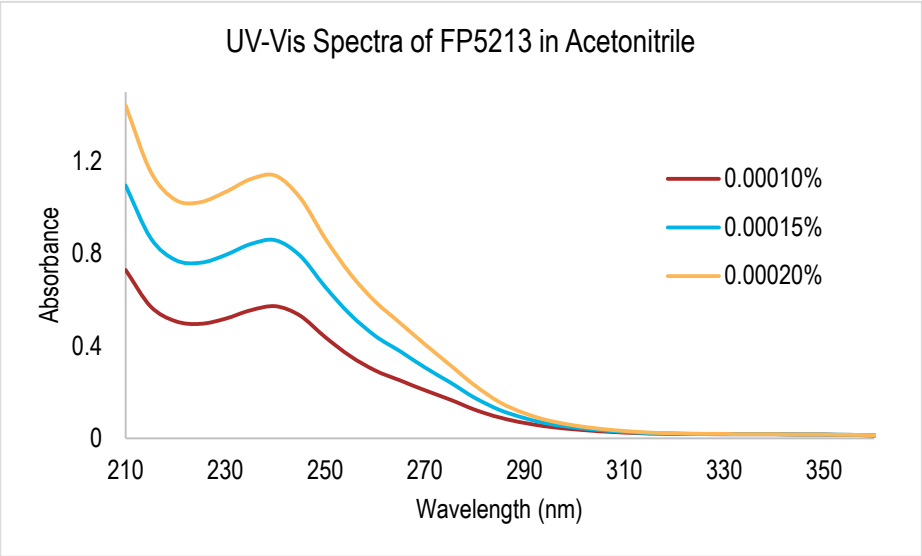
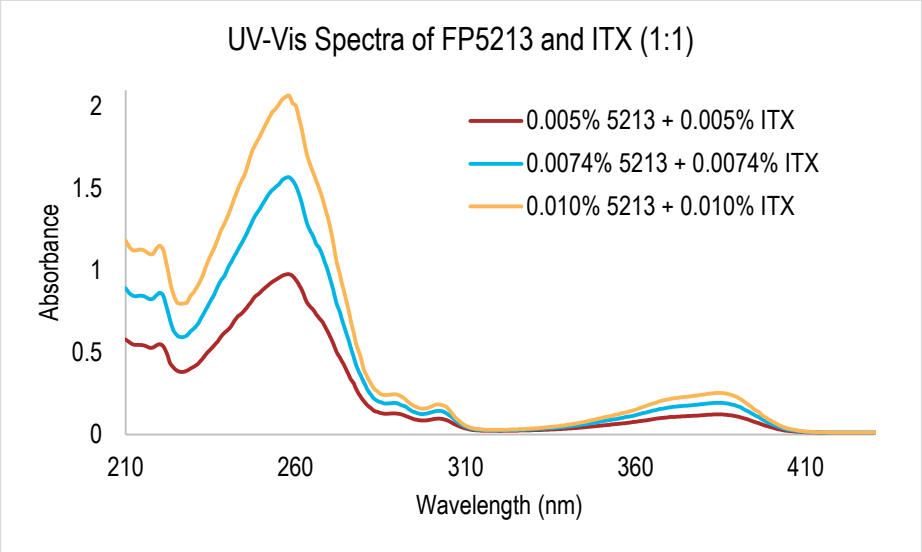
Absorption Spectrum





Suggested Starting Formulation

FP5213 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 the 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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