

# Hampford Research INC

Handcrafted Solutions For A High-Tech World

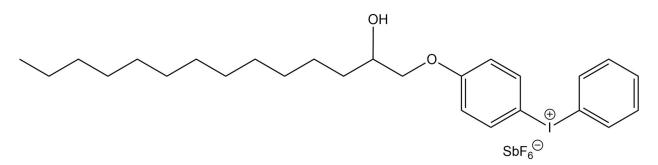
## HPPI FP 5225

#### General

HPPI is a non-symmetrical iodonium UV photoacid generator (PAG) used to initiate polymerization in epoxies, epoxy silicones, oxetanes, vinyls and many other monomers.

Because of its high solubility and rapid cure rate, HPPI exhibits very little tendency to migrate to the surface, making it ideal for UV lithographic printing and pressure sensitive adhesives. For expanded UV LED range, HPPI can easily be sensitized with thioxanthones, anthracenes, or many other sensitizers.

#### **Chemical Structure**



#### **Product Information**

Product Type: CAS Number:	Photoacid Generator 139301-16-9
Product Name:	[4-[(2-Hydroxytetradecyl)oxy]phenyl]phenyliodonium hexafluoroantimonate
Synonyms:	[p-(2-Hydroxytetradecyloxy)phenyl]phenyliodonium hexafluoroantimonate; HPPI 5225
Key Features:	High Solubility; High-speed Photoacid Generator; Epoxy, Vinyl and Oxetane Photopolymerization
Typical Properties	Wilhite to Off Wilhite Calid

### Appearance: Melting Point:

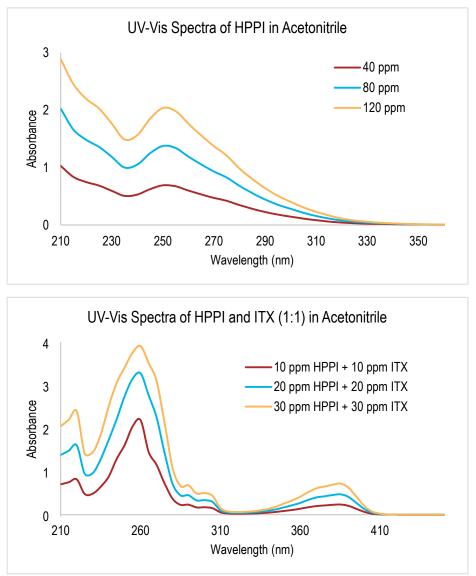
Molecular Weight:

White to Off-White Solid 92 – 98°C 745.23 g/mole

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

Hampford Research, Inc. disclaims any liability incurred in connection with the use of the data contained in this bulletin. Furthermore, nothing contained in this bulletin shall be construed as a recommendation to use any product in conflict with existing patents.

#### **Absorption Spectrum**



#### **Suggested Starting Formulation**

HPPI 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, 9,10-DEA, or a sensitizer of your choice) should be used to help expand the absorbance range.

#### **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.

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

Hampford Research, Inc. disclaims any liability incurred in connection with the use of the data contained in this bulletin. Furthermore, nothing contained in this bulletin shall be construed as a recommendation to use any product in conflict with existing patents.