



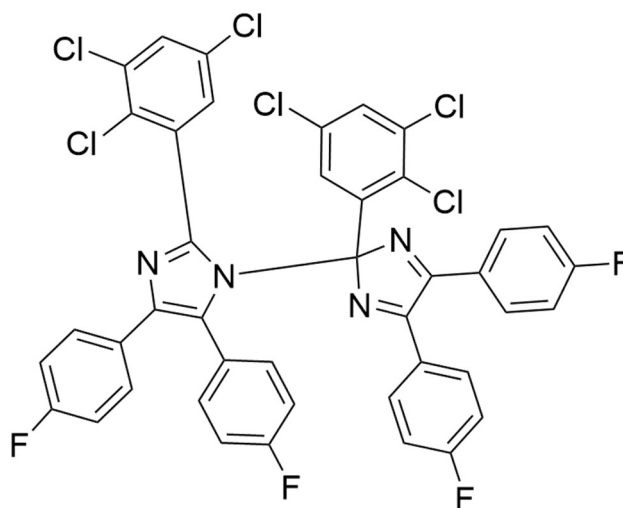
Bis(trichlorofluoro) HABI FP 5414

General

For over 40 years, Hampford Research, Inc. has manufactured hexaarylbiimidazole (HABI) based free radical photoinitiators. HRI has been able to improve performance in traditional LED wavelengths (395nm & 405nm). With the right combination of coinitiators and sensitizers, that range can be expanded farther into the visible range. These innovative compounds undergo homolytic cleavage to produce stable lophyl radicals with excellent resistance to oxygen inhibition. With a high molecular weight, HABIs are an excellent choice if trying to avoid migration in the final product.

Due to the multiple halogen constituents, BisTCF HABI has improved solubility in moderately polar systems, over traditional HABIs. With outstanding photo-speed and solubility, BisTCF HABI is ideal for most applications.

Chemical Structure



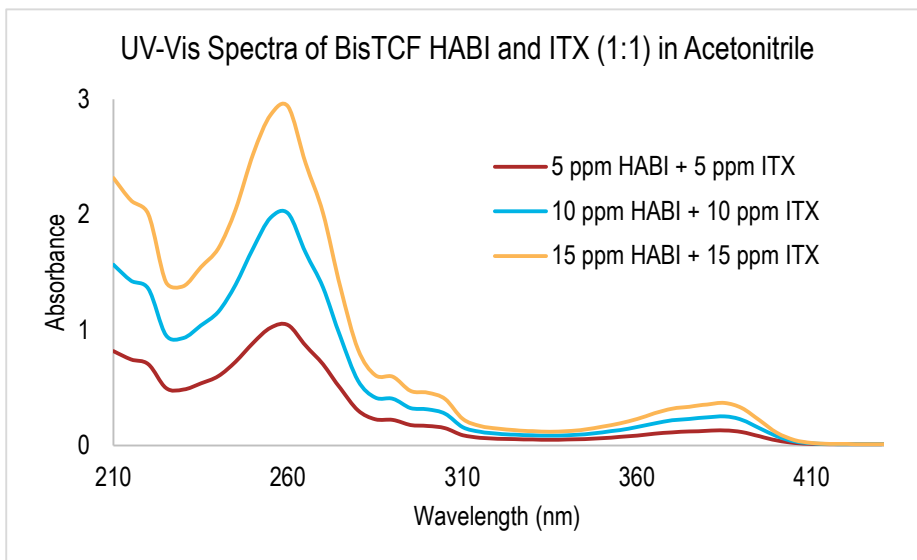
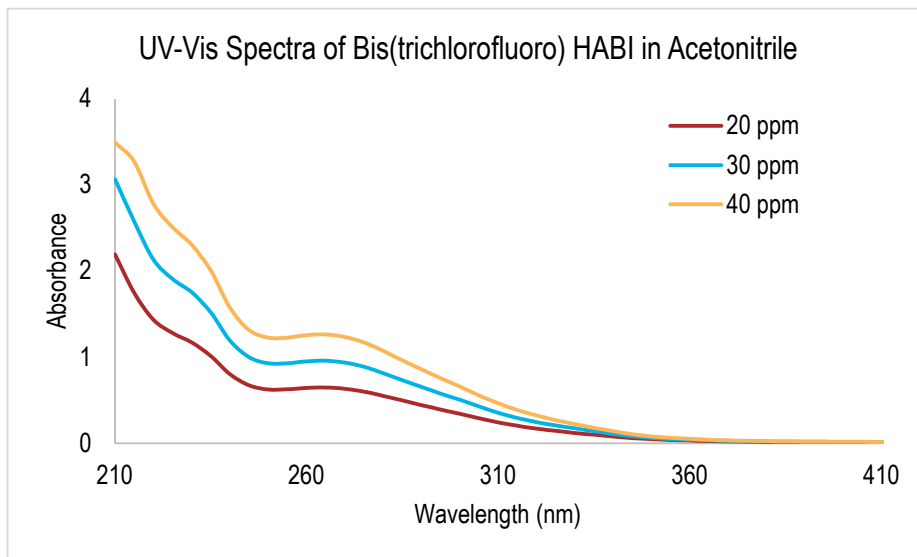
Product Information

Product Type:	Free Radical Generator; Photoinitiator
CAS Number:	2991098-03-2
Product Name:	Bis(trichlorofluoro) HABI
Synonyms:	1 <i>H</i> -Imidazole, 1-[4,5-bis(4-fluorophenyl)-2-(2,3,5-trichlorophenyl)-2 <i>H</i> -imidazol-2-yl]-4,5-bis(4-fluorophenyl)-2-(2,3,5-trichlorophenyl)-; BisTCF HABI
Applications:	Initiate Polymerizations; Oxidize Leuco Dyes; Photoresists; Graphic Arts Imaging; Coatings

Typical Properties

Appearance:	Free Flowing Yellow Powder
Melting Point:	223 - 228°C (Capillary)
Molecular Weight:	869.35 g/mole
Absorbance λ :	229 & 263 nm

Absorption Spectrum



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.