Hampford Research INC
Handcrafted Solutions For A High-Tech World

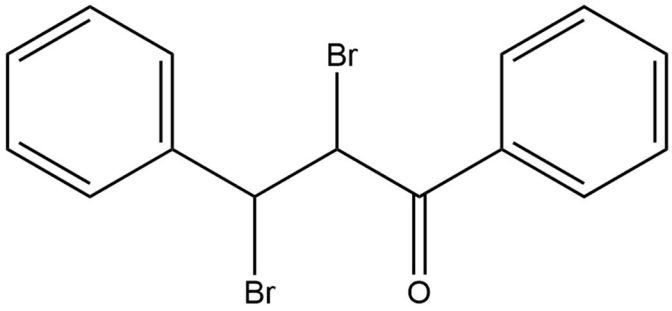
Dibromochalcone
FP 5080

General

Chalcones are a class of compounds with a α,β-unsaturated ketone, that often exist naturally in plants. Different substituents result in differing absorbances. Commonly used as free-radical photoinitiators, under the right conditions, they are also effective cationic photoinitiators.

Dibromochalcone is often paired with other photoinitiators or sensitizers to expand the absorbance range. For example, ITX or Camphorquinone can be effective in the UV-LED or Blue light regions, respectively.

Chemical Structure



Product Information

Product Type:	Photoinitiator; Sensitizer; Sensitizing Dye
CAS Number:	611-91-6
Product Name:	Dibromochalcone
Synonyms:	2,3-dibromo-3-phenylpropiophenone; Chalcone Dibromide; 1,3-Diphenyl-2,3-dibromo-1-propanone
Applications:	Electronics; Holographic Dyes/Films; Dry Film Resists
Key Features:	Photosensitizer; Photoinitiator

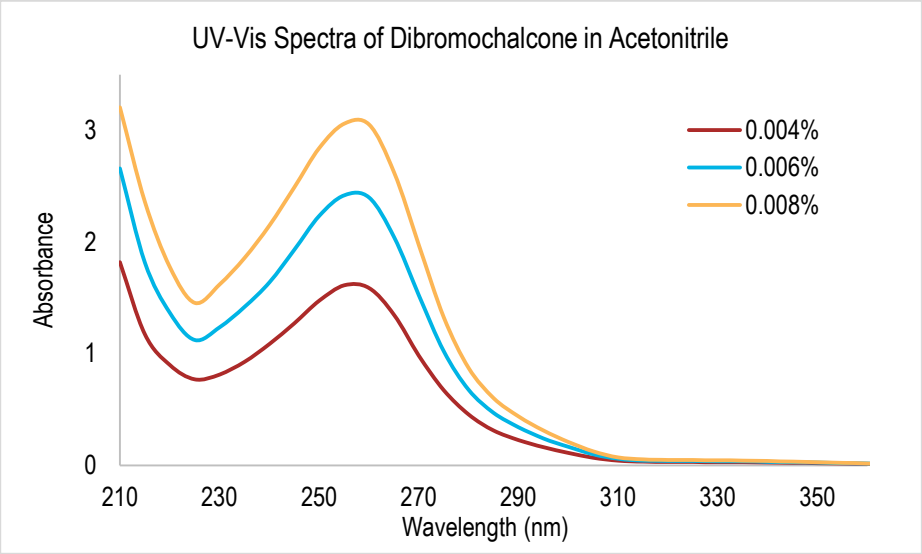
Typical Properties

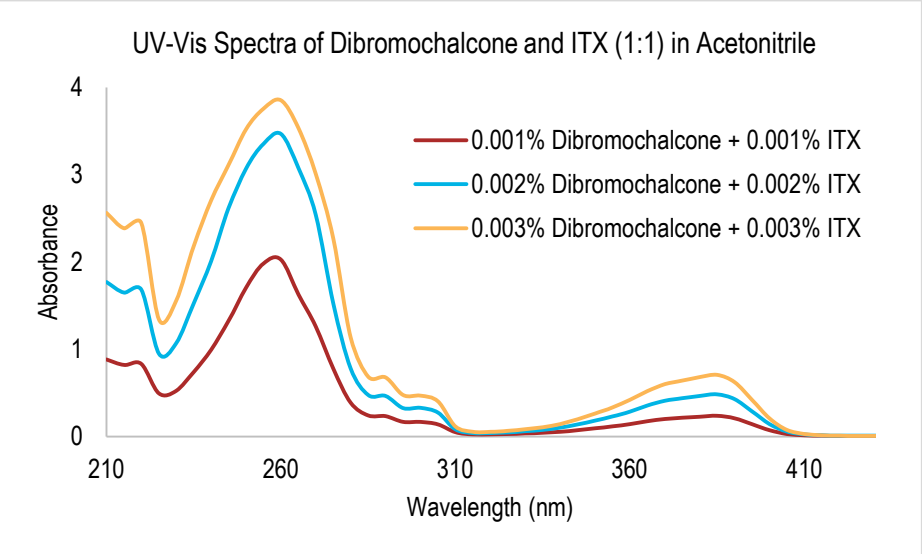
Appearance:	Powder
λ Max:	256 – 263nm
Melting Point:	155 – 162°C (Capillary)
Molecular Weight:	368.06 g/mole

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

Rev: 3/26/2025

Absorption Spectra





Safety and Handling

Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Handle in a well-ventilated area with suitable protective equipment. Use local exhaust if dust is generated.

Dibromochalcone is sensitive to visible light. Exposure to sunlight should be avoided.

Detailed information is provided in the SDS.

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

Rev: 3/26/2025