

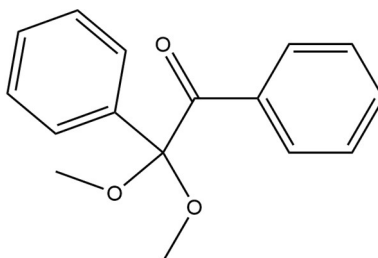
Benzil Dimethyl Ketal (BDK) **FP 5067**

General

BDK is a highly efficient free radical photoinitiator designed for most UV curable applications. It readily initiates polymerization of acrylate, methacrylate, styrene, as well as many other unsaturated monomer and oligomer systems.

BDK is a versatile photoinitiator choice for everything from adhesives, graphic inks, electronics and coatings for wood, metal, and plastic. It can be paired with various sensitizers to expand the absorbance across the UV-Visible light range, for LED applications.

Chemical Structure



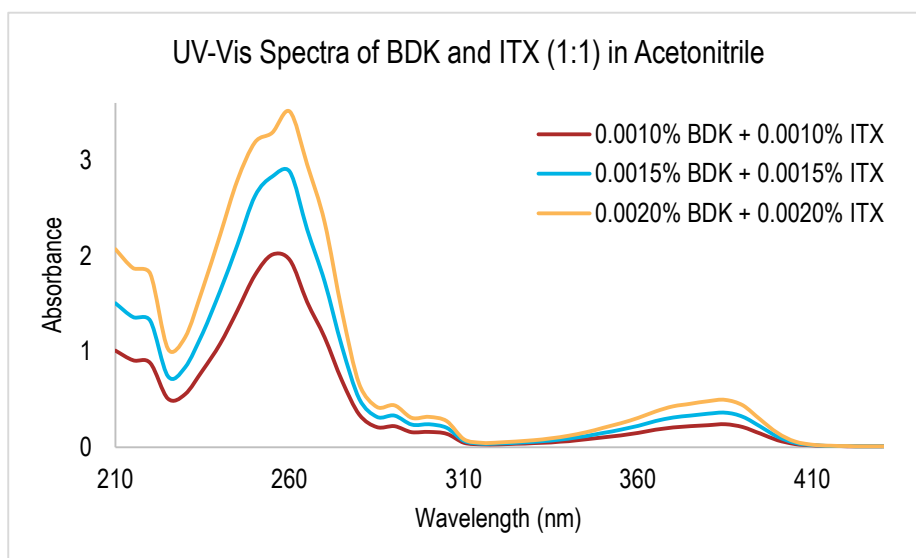
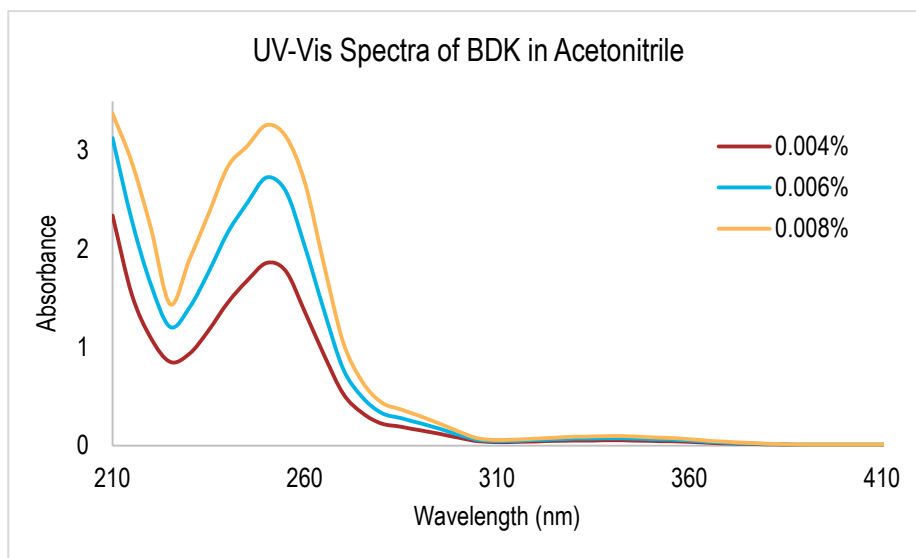
Product Information

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|---------------|--|
| Product Type: | Photoinitiator Type I; Free Radical Generator |
| CAS Number: | 24650-42-8 |
| Product Name: | Benzil dimethyl ketal |
| Synonyms: | Benzil α,α -dimethyl acetal; 2,2-Dimethoxy-2-phenylacetophenone; BDK |
| Applications: | Electronics; Adhesives; Metal, Plastic and Wood Coatings; Graphic Arts |
| Key Features: | Photoinitiator; Versatile Across Many Applications |

Typical Properties

| | |
|-------------------|---------------------------------|
| Appearance: | White to Slightly Yellow Powder |
| λ Max: | 247 – 254nm |
| Melting Point: | 64 – 67°C (Capillary) |
| Molecular Weight: | 256.30 g/mole |

Absorption Spectrum



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.

BDK 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.