

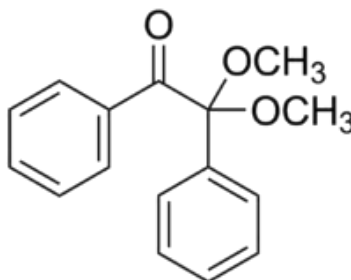


## Benzil dimethyl ketal (BDK)

### General

BDK is a free radical photoinitiator designed for most UV curable applications, including UV-curable inks, coatings and adhesives. Because of the very short triplet lifetime, monomer quenching is avoided, making BDK a very efficient choice for applications such as wood coatings and particle board fillers. Performance can be further optimized through the addition of an amine synergist such as NPG.

### Chemical structure:



### Product information

|                     |  |
|---------------------|--|
| PRODUCT TYPE:       | Photoinitiator                                 |
| PRODUCT NAME:       | BDK  |
| CAS NUMBER:         | 24650-42-8                                     |
| TRADE NAMES:        | Benzil dimethyl ketal                          |
| APPLICATIONS:       | UV curable coatings, printing, adhesives.      |
| PACKAGING:          | Sold as a solid                                |
| SHELF LIFE/STORAGE: | 1 year when stored indoors at 25 (+/- 5) deg C |

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### Typical properties:

|                    |                           |
|--------------------|---------------------------|
| MELTING POINT:     | 64-67°C                   |
| INFRARED SPECTRUM: | Matches Standard          |
| PURITY:            | >99.5%                    |
| APPEARANCE:        | Crystalline, white powder |

### Safety and Handling

BDK should be handled in accordance with good industrial practice. Detailed information is provided in the SDS.

BDK is sensitive to visible light and any exposure to sunlight should be avoided.

NOTE: Intellectual property issues cover the use of this material in select applications. For additional information visit our website [www.hampfordresearch.com](http://www.hampfordresearch.com).

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