# Benzil dimethyl ketal (2,2-dimethoxy-2-phenylacetophenone)

Benzil dimethyl ketal (2,2-dimethoxy-2-phenylacetophenone) · RS-BDK · CAS 24650-42-8 · Technical Data Sheet · RawSource · rawsource.com/product/benzil-dimethyl-ketal-2-2-dimethoxy-2-phenylacetophenone/

| CAS NO. | PRODUCT CODE | PRODUCT TYPE |
|---|---|---|
| 24650-42-8 | RS-BDK | Photoinitiator (Type I) |

2,2-Dimethoxy-2-phenylacetophenone (BDK) is a Type I photoinitiator supplied as a crystalline powder. It shows serious yellowing and is generally not used for varnish systems. It can be used in photosensitive resin printing and is compatible with unsaturated polyesters, acrylate monomers and oligomers used in UV-curable systems.

DISTRIBUTED BY
**RawSource Inc.**
515 E Las Olas Blvd, Suite 1301, Fort Lauderdale, FL 33301
305-307-6515 · solutions@rawsource.com · rawsource.com
Product page: rawsource.com/product/benzil-dimethyl-ketal-2-2-dimethoxy-2-phenylacetophenone/
Request a quote: solutions@rawsource.com · 305-307-6515
Quote by RS code: RS-BDK

## GENERAL INFORMATION

| | |
|---|---|
| Chemical name | 2,2-Dimethoxy-2-phenylacetophenone |
| Molecular formula | $C_{16}H_{16}O_3$ |
| Molecular weight | 256.3 |

## TYPICAL PROPERTIES

| | |
|---|---|
| Melting Point | 63 – 67 °C |

Typical values are representative of the product and are not specifications.

## RELEASE SPECIFICATION

| PARAMETER | SPECIFICATION | TYPICAL |
|---|---|---|
| Appearance | White crystalline powder | Conform |
| Assay | 99 % min | 99.99 % |
| Melting point | 63 – 67 °C | 64.9 – 67.0 °C |
| Volatile | 0.5 % max | 0.09 % |
| Transmittance at 425 nm | 95.0 % min | 98.20 % |
| Transmittance at 450 nm | 96.0 % min | 99.20 % |
| Transmittance at 500 nm | 98.0 % min | 99.60 % |

Each lot is released against this specification. Lot-specific results are reported on the Certificate of Analysis that ships with every delivery.

## KEY FEATURES

- Compatible with unsaturated polyesters, acrylate monomers and oligomers

## APPLICATIONS

- Photosensitive resin printing
- UV-curable systems with unsaturated polyesters, acrylate monomers and oligomers

Applications are those stated for the product. Confirm suitability for each formulation by trials.

## HANDLING REQUIREMENTS

- Keep the material in its original packaging.
- Store in a cool, dry, dark and well-ventilated place.
- Keep away from rain and wet places.
- Keep away from flames and heat sources.

## PACKAGING AND SHELF LIFE

- Cartons
- Shelf life: 24 months from production date.

The information in this Technical Data Sheet is provided for technical evaluation and is believed to be accurate as of the issue date. Typical values are representative and do not constitute a warranty. Binding specifications are those stated on the lot-specific Certificate of Analysis and in the sales contract. Users should verify suitability for their own process and regulatory requirements. Refer to the Safety Data Sheet before handling. Questions: solutions@rawsource.com.