

# 安鋒實業股份有限公司

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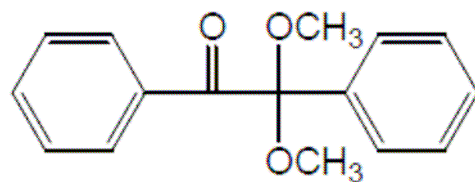
網站 : www.twanfong.com

## PHOTOINITIATOR UVC-BDK

### Specification :

Appearance	: White crystal
Assay	: 99.5% min.
Odor	: Very faint
Melting point	: 65~66°C
Boiling point	: 305°C
Specific gravity	: 1.20@20°C
Vapor pressure	: 8.5 x 10 <sup>-6</sup> mmHg @20°C
Volatiles	: 0.3% max.
Ash	: 0.1% max.
Transmittance (10g/100 ml toluene)	
	425 nm : 95% min.
	450 nm : 97% min.
	500 nm : 98% min.
Heavy Metals	: 50 ppm max.
Benzil Content	: 0.1% max.

### Structure :



Chemical name: 2,2-Dimethyl-1,2-diphenylethan-1-one (BDK)

CAS No.: 24650-42-8

EINECS No.: 246-386-6

Molecular Formula: C<sub>16</sub>H<sub>16</sub>O<sub>3</sub>

Molecular Weight: 256.3

### Properties :

UVC-DBK is a highly efficient photoinitiator where inherent yellowing is not important.

High photospeed combined with improved shelf life helps make it the initiator of choice for many applications, including coating on wood, metal and plastic as well as photoresist and dry film.

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## Application :

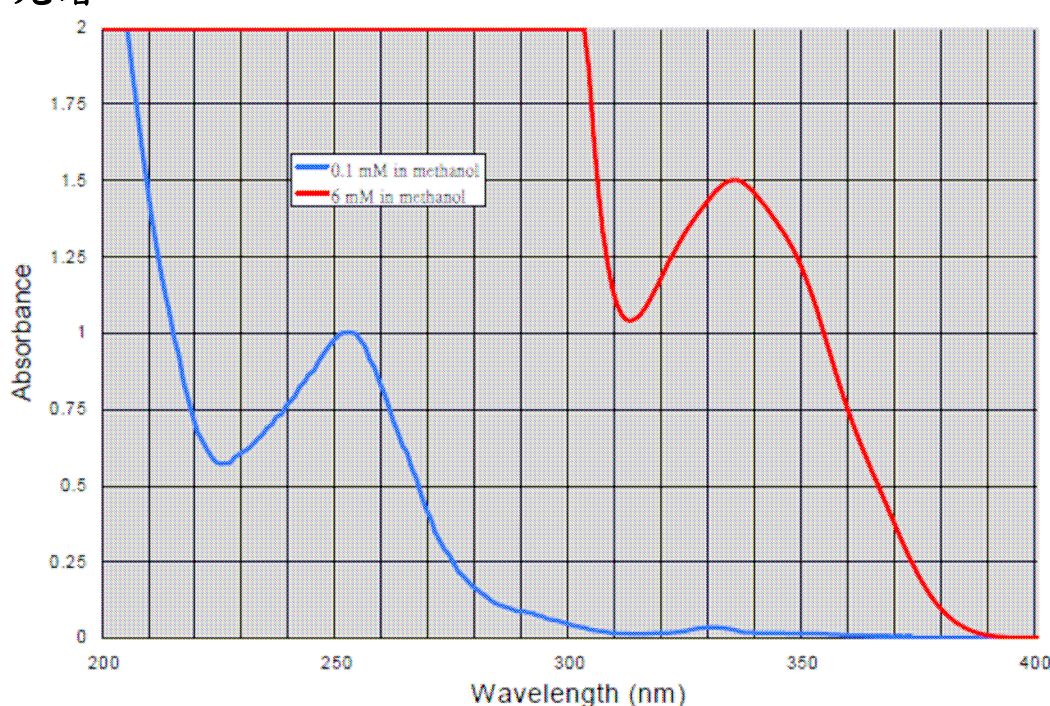
UVC-BDK, when irradiating with UV light, undergoes a homolytic and intramolecular type of breakage to generate a pair of free radicals to initiate the polymerization of UV curable systems. It does not require hydrogen donor to initiate its radicals. However its radicals are very sensitive to oxygen in the air. Because its polymerization end products contain quinone type of compounds which result in the yellowing effect, its application has been limited. It is usually used to initiate polymerization of systems based on unsaturated acrylic monomers as reactive diluents.

The usage rates of UVC-BDK vary according to the composition of the system, source of light, line speed, and film thickness but usually lie between 0.5% to 5% w/w. UVC-BDK can be used for printing ink, overprint vanishes and wood lacquers, putties and fillers for particle board and chip board, adhesive, photoresists and solder masks, and optical fibers.

## Solubility :

Insoluble in water; Soluble in most organic solvents and compatible with most unsaturated pre-polymers, resins and monomers used in the UV curing industry.

## UV 光譜 :



## Packaging :

Black polyethylene bag in fiber drum - 50kg net weight

## Storage :

Must be stored in closed containers in dark dry conditions.

注意：此為一指導性資料，並不具有約束力，我們建議使用者能在使用之前做有必要的測試，不要把它當做一種直接的替代品，如此才能確保產品適合於指定的應用。