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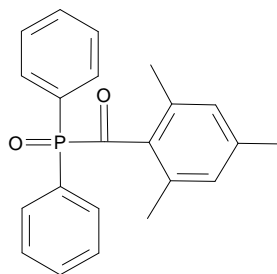
# Ciba® Darocur® TPO

## Photoinitiator

### General

DAROCUR TPO is a highly efficient curing agent which is used to initiate radical photopolymerisation of unsaturated resins such as those based on a prepolymer - e.g. acrylates - in combination with mono- or multifunctional monomers as reactive thinners.

### Chemical Composition



2,4,6-Trimethylbenzoyl-diphenyl-phosphineoxide

### Physical Properties

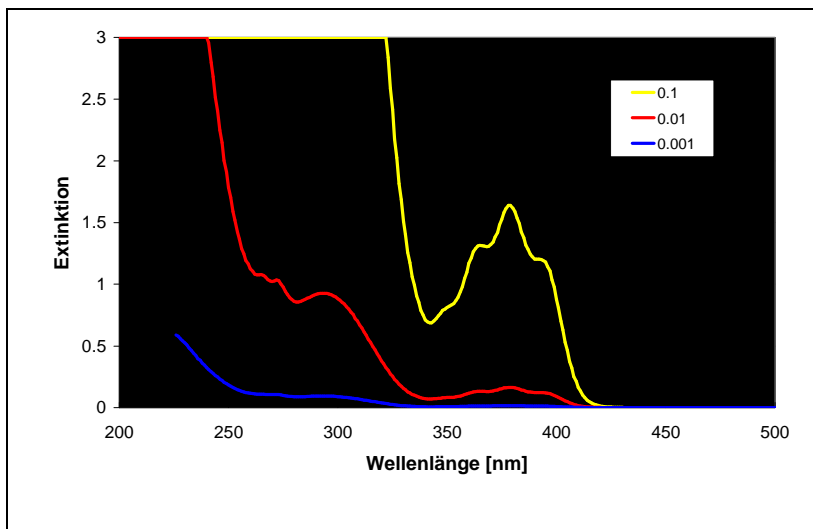
Appearance: yellow powder

Melting point: 88-92°C

Specific Gravity: 1.2 (water = 1)

### Absorption Spectrum

(% in Acetonitrile)





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Coating Effects Segment



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### Solubility (at 22 °C)

Solvent	wt% dissolved
Acetone	47
n-butyl-acetate	25
IBOA	15
IDA	7
PEA	34
HDDA	22
TrPGDA	16
TMPTA	14
TMPEOTA	13
DAROCUR 1173	>50

### Applications

DAROCUR TPO may be used after adequate testing in UV curable formulations for clear and for pigmented coatings on wood, metal, plastic, paper and optical fibers as well as for printing inks and adhesives.

DAROCUR TPO offers good solubility in common UV reactive systems, e.g. systems based on acrylates or unsaturated polyesters. It can be used as the sole photoinitiator or in combinations with other photoinitiators, like e.g.  $\alpha$ -hydroxy ketones.

The amount of DAROCUR TPO required for optimum performance should be determined in trials covering a concentration range.

### Recommended concentration:

**1 - 5 % DAROCUR TPO**

### Safety and Handling

DAROCUR TPO should be handled in accordance with good industrial practice. Detailed information is provided in the Safety Data Sheet.

### Important Notice

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沐峰產業有限公司

TEL : 03-3239249 FAX : 03-3239262

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