

# PowerCure™ 184 Photoinitiator

## Introduction

PowerCure™ 184 is a highly efficient, non-yellowing photoinitiator which is used to initiate the photopolymerisation of chemically unsaturated prepolymers - e.g. acrylates - in combination with mono- or multifunctional vinyl monomers.

## Chemical Name

1-Hydroxycyclohexyl phenyl ketone

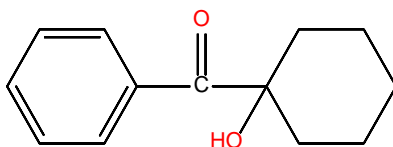
## CAS Number

947-19-3

## EINECS Number

213-426-9

## Chemical Structure



## Chemical Formula

C<sub>13</sub>H<sub>16</sub>O<sub>2</sub>

## Molecular Weight

204.3

## Physical Properties

Appearance	White crystalline powder
Melting point (°C)	46-49
Volatiles (%)	Max.0.2
Purity (%)	Min.99
Light transmittance% (10g/100ml Toluene)	
425nm	Min.98
500nm	Min.99

## Solubility

Solubility [20°C]	% w/w
Acetone	> 50
Butylacetate	> 50
Methanol	> 50
Toluene	> 50
Hexanedioldiacrylate (HDDA)	> 50

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Isobornyl Acrylate (IBOA)	> 50
Dipropylene Glycol Diacrylate (DPGDA)	> 50
Glycerol Propoxylate Triacrylate (GPTA)	> 40
Oligomeric triacrylate	~ 40
Trimethylolpropanetrisacrylate (TMPTA)	> 40
Tripropyleneglycoldiacrylate (TPGDA)	> 40

### Benefits & Applications

PowerCure™ 184 may be used for applications such as UV curable clear coatings based on acrylates for paper, metal and plastic materials after adequate testing.

PowerCure™ 184 is especially recommended when UV coatings are required to exhibit only minimal yellowing even after prolonged exposure to sunlight.

### Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

### Packing

PowerCure™ 184 is supplied in a 20Kg Carton.

### Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.



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