

# PowerCure™ 2022 Photoinitiator

## Introduction

PowerCure™ 2022 is a highly efficient liquid curing agent that is used to initiate radical polymerization of unsaturated resins after exposure to UV light. It is the first choice for use in pigmented formulations of all colors, for curing of thick sections or for UV-stabilized clear coatings. Unsaturated resins that are particularly suitable are those based on a prepolymer – e.g., acrylates or unsaturated polyesters – in combination with mono- or multifunctional monomers as reactive diluents.

## Chemical Name

Blend of PowerCure 1173 and PowerCure TPO-L and PowerCure 819

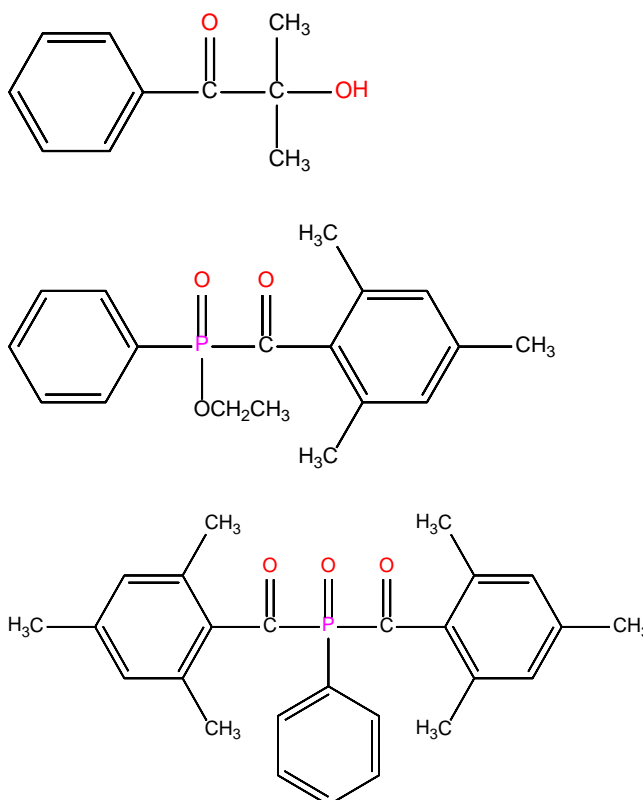
## CAS Number

7473-98-5+84434-11-7+162881-26-7.

## EINECS Number

231-272-0 + 282-810-6 + 423-340-5

## Chemical Structure



## PowerCure™ 2022 Photoinitiator

**Molecular Weight** 164.20, 316.3, 418.46.

**Physical Properties**

Appearance	Yellow liquid
Transmittance (500 nm, 10g/100ml Toluene, %)	Min.95.0
Transmittance (500 nm, 1.000 g/l in acetonitrile, %)	Min.95.0
Absorbance (340 nm, %)	0.76-0.89

**Benefits & Applications**

PowerCure™ 2022 is a photoinitiator mixture with well-balanced surface and through cure.

PowerCure™ 2022 may be used 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 composites.

PowerCure™ 2022 exhibits outstanding curing performance in highly opaque furniture coatings or screen inks containing rutile titanium dioxide. Additionally, the outstanding absorption properties of PowerCure™2022 allow curing of thick sections.

PowerCure™ 2022 is the most cost-effective solution for the curing of pigmented UV-curable compositions due to its outstanding reactivity with a well-balanced ratio between through and surface curing.

As a liquid photoinitiator, PowerCure™ 2022 is especially easy to incorporate into formulations.

**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 two years 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



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product life. Keep containers sealed when not in use.

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

### **Packing**

PowerCure™ 2022 is supplied in 20Kg cans.

### **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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