

Photoinitiator for UV coatings

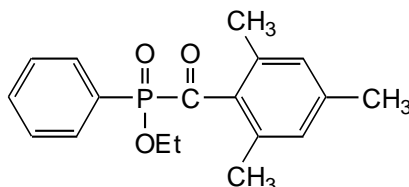
PHOTOINITIATOR

1. General

Chivacure[®] 1256 is a non-yellowing liquid photoinitiator designed specifically for unsaturated polyesters or thick acrylic UV coatings. It has a minor λ max located in 374 nm, therefore, it is also ideal for white-pigmented systems.

2. Properties

Structure :



CAS Name : Ethyl 2,4,6-trimethylbenzoylphenylphosphinate
 CAS No. : 84434-11-7
 Molecular Formula : C₁₈H₂₁O₃P
 Molecular Weight : 316.34

3. Physical Data

Appearance : Yellow liquid
 Density : 1.13 g/cm³ @20 °C
 Viscosity : 800 cps
 Vapor pressure : < 0.01 Pa @20 °C

4. Solubility

(g in 100 ml solvent, at 20 °C)

Acetone : Unlimited
 Butyl acetate : Unlimited
 Dichloromethane : Unlimited
 MEK : Unlimited
 Styrene : Unlimited
 TMPTA : Unlimited
 Water : Nil

5. Specification

Appearance : Yellow liquid
 Assay (HPLC) : 95% min.
 Volatile : 1% max.
 Color (Gardner) : 7 max.
 Viscosity at 20 °C : 1,000 cps max.

6. Application

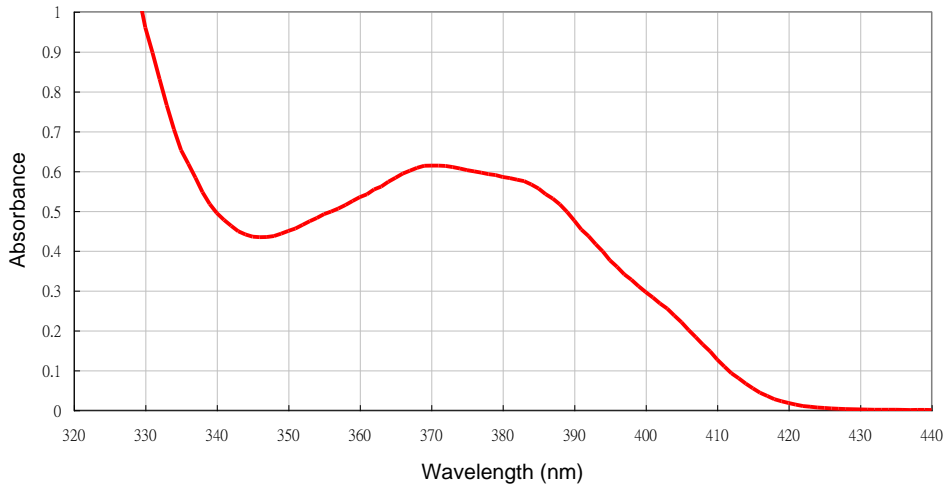
Basically, a percentage of 1 – 3% of Chivacure[®] 1256 is effective for lacquer preparation. If the resin is made of polyester, there is no need for coinitiators. However, due to its sensitivity toward oxygen inhibition, additional coinitiators such as Chivacure[®] 184 or 173 is highly recommended for pigmented acrylic finishes. If the yellowing is not concerned, amine synergist such as Chivacure[®] EPD or 115 is also benefic to the throughcure.

Owing to its absorption of light in the long wave UV region, Chivacure[®] 1256 and lacquers produced from it are daylight-sensitive. Therefore, light with wavelength less than 500 nm must be excluded during storage and processing.

The shelf life of Chivacure[®] 1256 finishes must be carefully checked due to the premature curing.

7. UV Spectrum

Chivacure 1256



8. Storage

Must be stored in closed containers in dry and dark conditions.

9. Packaging

20 kg plastic drum