

Photoinitiator for UV Radiation Curing Systems

PHOTOINITIATOR

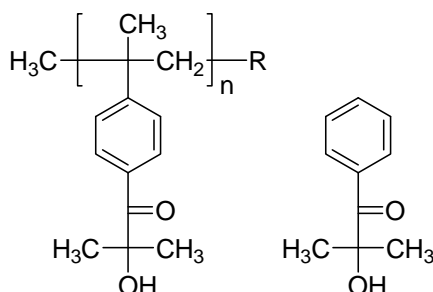
1. General

Chivacure® 100 is an oligomeric polyfunctional alpha-hydroxyketone photoinitiator characterized by its extremely high reactivity, low odor and non-yellowing properties. It is compatible with most acrylic-based UV systems and is ideal for extra-thin coatings where oxygen inhibition is severe. When diluted with suitable solvents or surfactants, it is also suitable for water based UV curable systems.

2. Properties

Chemical name : Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone] and 2-Hydroxy-2-methyl-1-phenyl-propan-1-one

Structure :



CAS No. : 163702-01-0 and 7473-98-5

3. Physical Data

Appearance : Yellow viscous liquid
 Odor : Faint
 Melting point : <10 °C
 Boiling point : >200 °C
 Specific gravity : ca. 1.10 @25 °C

4. Solubility

(g in 100 ml solvent @25 °C)

Acetone : >40
 Toluene : >50
 MEK : >40
 HDDA : >10
 TMPTA : >10
 TPGDA : >20
 Water : <0.5

5. Specification

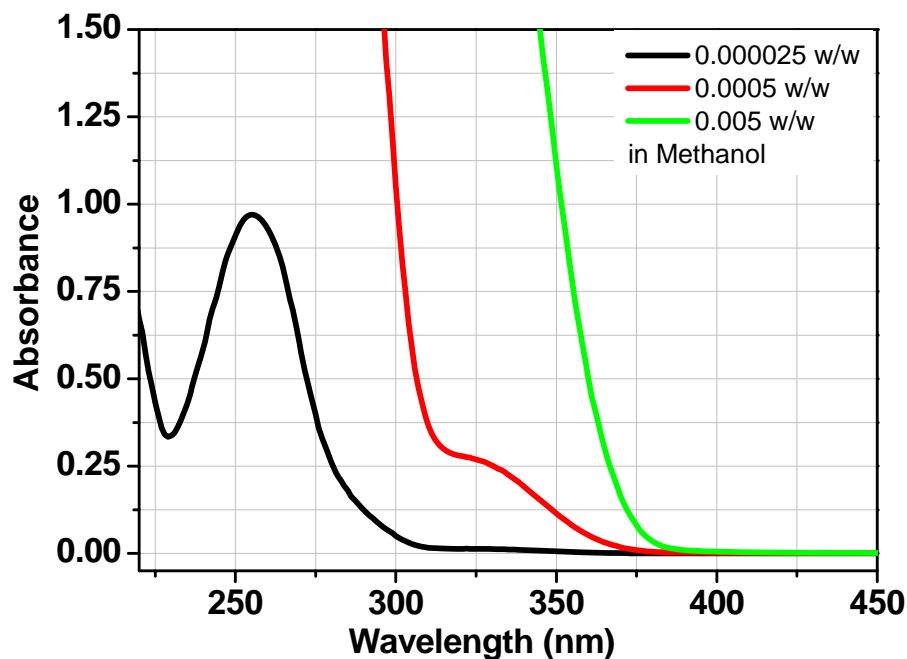
Appearance : Yellow viscous liquid
 Assay (HPLC) : 95% min.
 Specific gravity : 1.07~1.13 @25 °C

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Volatiles : 0.5% max.

6. UV Spectrum



7. Application

Chivacure® 100 is especially suitable for the applications when no migration, low odor and non-yellowing are required. It is recommended for below applications and the use levels range between 0.5% and 5% are recommended depending on the substrate and performance requirements of the final application.

- ❖ UV coatings and printing inks
- ❖ Adhesives and photoresists
- ❖ Printing plates
- ❖ Fiber optics

8. Storage

Chivacure® 100 is sensitive to visible light and any exposure to sunlight should be avoided. Kept at low temperature (below 25 °C) and dry conditions. Avoid contacting with heat. Opened drums should be closed after use to protect the product against light.