

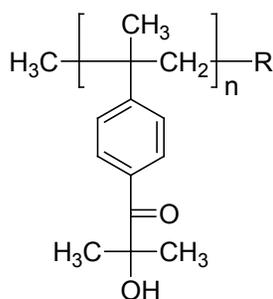
Photoinitiator for UV Radiation Curing Systems
PHOTOINITIATOR
1. General

Chivacure® 150 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]

Structure :



CAS No. : 163702-01-0

3. Physical Data

Appearance : Yellow semi-solid
 Odor : Faint
 Melting point : 30-100 °C
 Boiling point : >250 °C

4. Solubility

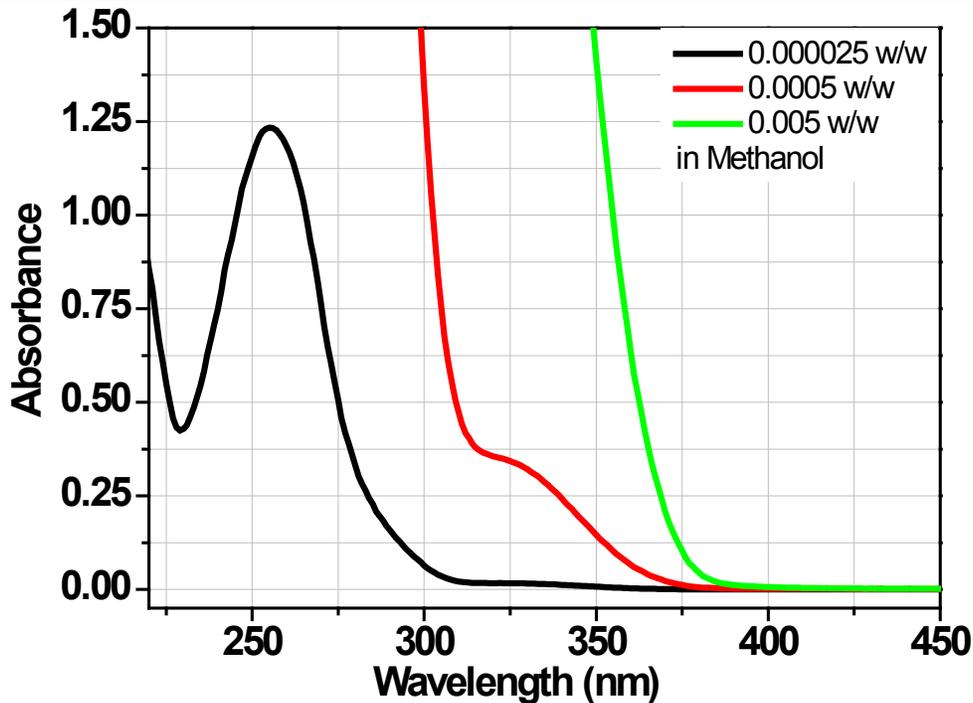
(g in 100 ml solvent @25 °C)

Acetone : >40
 Toluene : 23
 MEK : >40
 HDDA : >6
 TMPTA : 6
 TPGDA : 25
 Water : <0.5

5. Specification

Appearance : Yellow semi-solid
 Assay (HPLC) : 95% min.
 Specific gravity : 1.05 min. @50 °C
 Volatiles : 0.5% max.

6. UV Spectrum



7. Application

Chivacure® 150 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® 150 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.