

Photoinitiator for UV Radiation Curing Systems

PHOTOINITIATOR

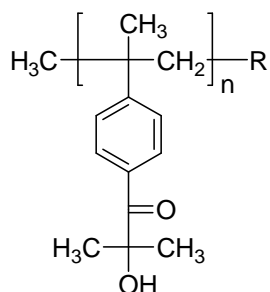
1. General

Chivacure® 70 contains 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

Compositions : Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone] and ethoxylated(5)pentaerythritol tetraacrylate (PPTTA)

Structure :



CAS No. : 163702-01-0 and 51728-26-8 (PPTTA)

3. Physical Data

Appearance : Pale yellow viscous liquid
Odor : Characteristic
Melting point : < 10 °C
Boiling point : > 200 °C
Specific gravity : ca. 1.09 @ 25 °C

4. Solubility

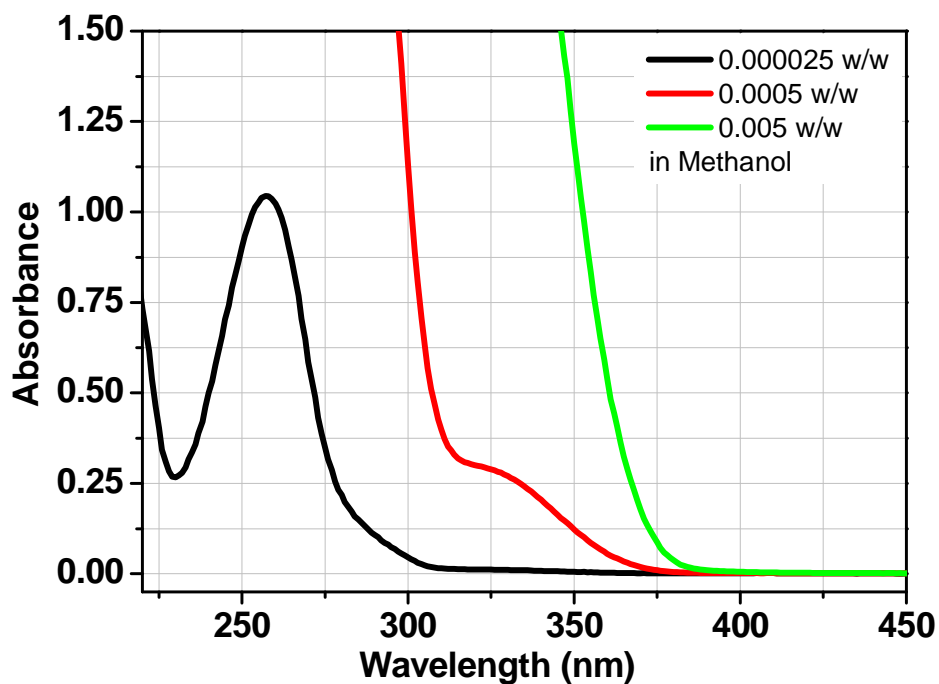
(g in 100 ml solvent @25 °C)

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

5. Specification

Appearance : Yellow viscous liquid
Specific gravity : 1.07 - 1.12 @ 25 °C
Volatiles : 0.5% max.

6. UV Spectrum



7. Application

Chivacure® 70 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. Packages

20 kg steel drum. It is recommended to heat the drum to 50 °C (122 °F) to transfer.