

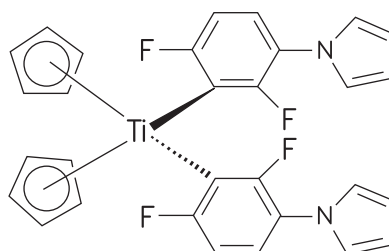
Introduction

Chivacure[®] 534 is a highly efficient, orange colored photoinitiator with good thermal stability which is able to initiate UV and/or visible light polymerization of chemically unsaturated monomers and prepolymers (e.g. acrylates). It belongs to the class of organometallic photoinitiator and can be used for both free-radical and cationic systems.

Chivacure[®] 534 is particularly suitable for the curing of photopolymers for imaging or information storage applications where extremely high photosensitivity is required.

Chemical Information

Structure



Chemical name

Bis(η5-2,4-cyclopentadien-1-yl)-bis(2,6-difluoro-3-(1H-pyrrol-1-yl)-phenyl) titanium

CAS No. 125051-32-3

ELINCS No. 412-000-1

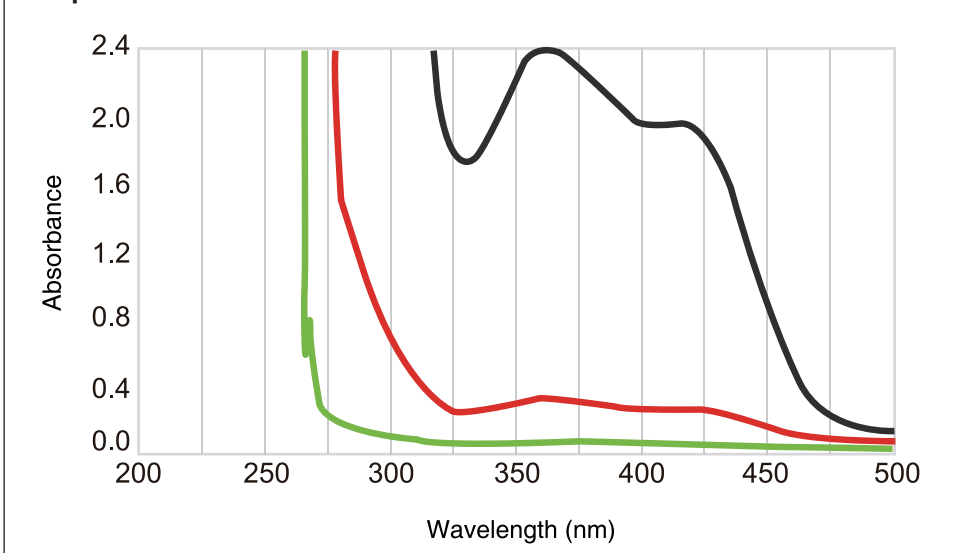
Solubility (g in 100 ml solvent @25 °C)

Acetone	: 30
Toluene	: 10
MEK	: 30
HDDA	: 10
TMPTA	: 5
Water	: <0.5
Butyl Acetate	: 2

Specification

Appearance	: Yellow to orange powder
Assay (HPLC)	: 99% min.
Melting point	: 180 °C min.
Volatiles	: 0.5% max.

UV Spectrum



Storage

Chivacure[®] 534 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. When Chivacure[®] 534 is dissolved in a solvent or a formulation it is extremely sensitive to daylight and light from standard fluorescence bulbs. Any open manipulation of such systems should be carried out either in the dark or under light provided by suitable red light sources. Upon storage in solutions with presence of donor molecules (e.g. ketons, amines, cyanates and others), a slow ligand exchange reaction may occur leading to decomposition into insoluble material. The insolubles exhibit low or no reactivity as photoinitiator. The product is stable for 1 year if stored in original, sealed containers under above-mentioned conditions.

Packaging

10 kg net/Iron drum with inner bag