Sustainable Innovation for a Better Future

PowerCure™ 1314 Photoinitiator

Introduction

PowerCure™ 1314 is an efficient photoinitiator, used to initiate the freeradical polymerization of ethylenically unsaturated monomers or multifunctional vinyl monomers. It is especially suitable for applications requiring extremely high photosensitivity and low yellowing.

Chemical Name

1-[4-(Phenylthio)phenyl]-1,2-octanedione 2-(O-benzoyloxime)

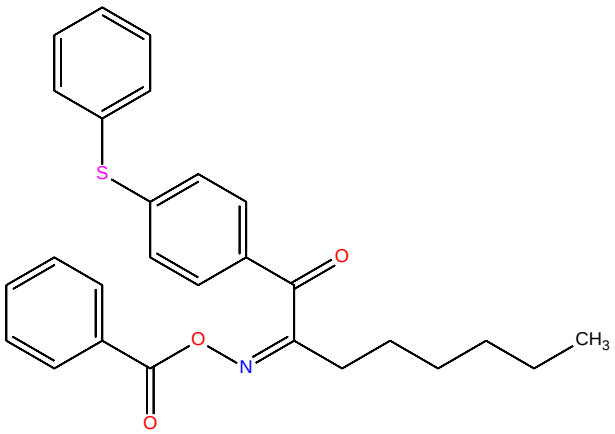
CAS Number

253585-83-0

EINECS Number

454-610-0

Chemical Structure



Chemical Formula

$C_{27}H_{27}NO_3S$

Molecular Weight

445.582

Physical Properties

Appearance	Pale yellow powder
Assay (HPLC, %)	Min.98.0
Melting Point [°C]	40-44
Volatile (%)	Max.0.50

Benefits & Applications

PowerCure™ 1314 is mainly used as spacer materials for displays, microlens materials, covering layers anddielectric or insulating layers.

PowerCure™ 1314 Photoinitiator

PowerCure™ 1314 may be used in UV curable photoresist formulations either alone orin combination with other photoinitiators or sensitizers.

PowerCure™ 1314 also can be used in photosensitive polyamide formulations, inspacer materials for LCD, in microlense materials, in overcoat layers and in dielectricor insulating layers.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerCure™ 1314 is supplied in 10Kg carton.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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We disclaim liability for any incidental or consequential damages.