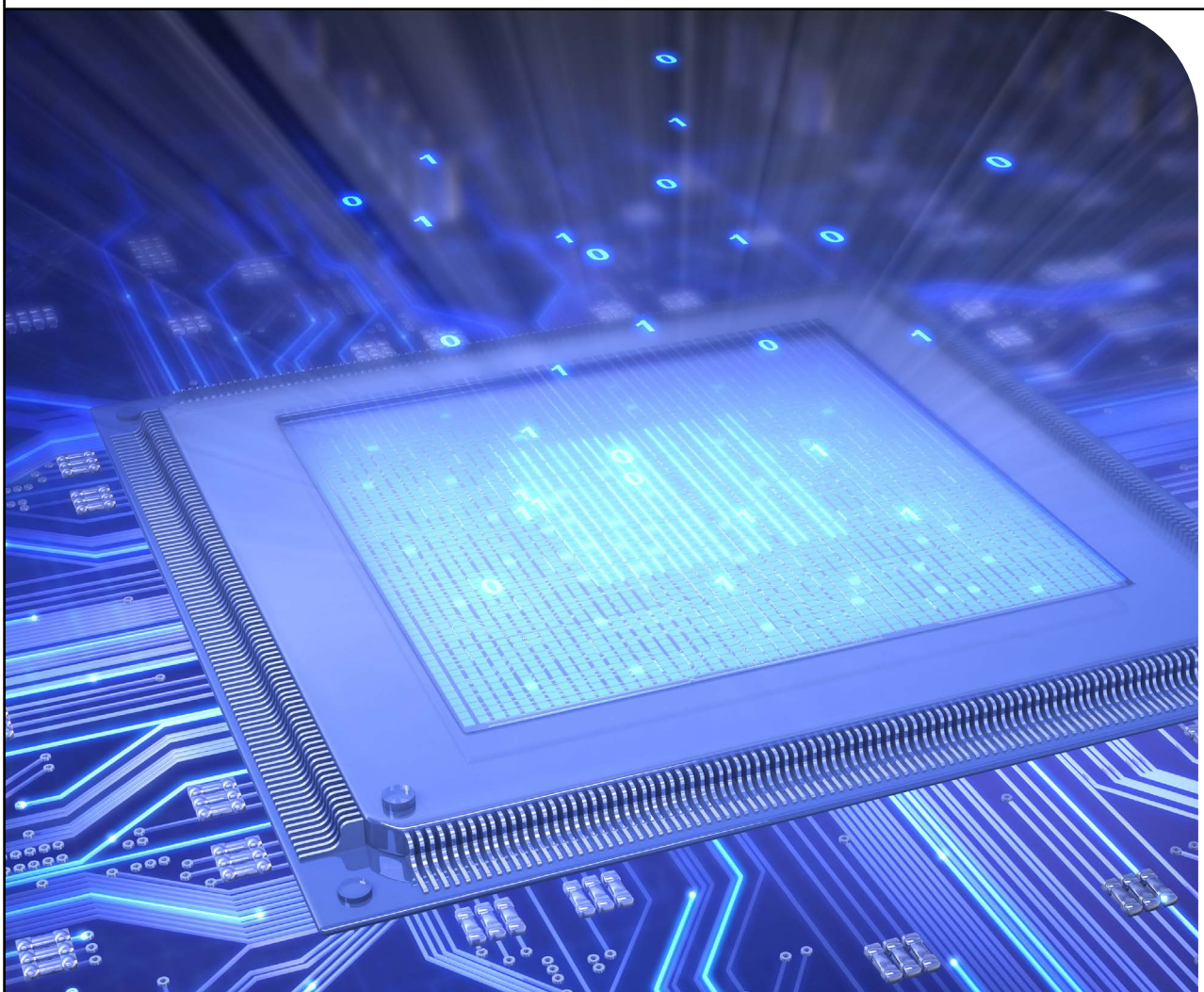
ARKEMA

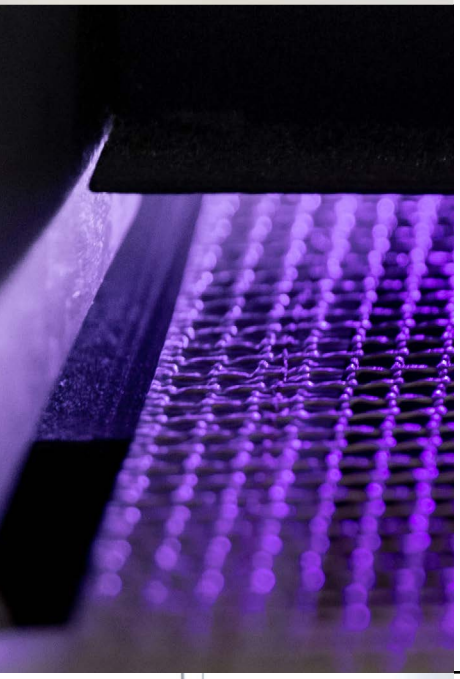
SARTOMER®

PRODUCT CATALOG

# Photoinitiator and cationic resins



# Arkema, a leader in specialty materials



## SARTOMER®

### Photoinitiator and Cationic Resins

Through its Sartomer® product line, Arkema offers a full range of photoinitiator systems, cationic resins, and additives for the energy-curable 3D printing, ink and coating industries.

- → High-quality products
- → In-depth expertise
- → Excellent customer service

## SPEEDCURE photoiniators

PI

A range of world-renowned single-component and specialist-formulated photoinitiator products for UV free radical and cationic curing of resins, varnishes, coatings, and inks. Valued for their applicability across all key UV curing technologies ranging from 3D printing, specialty coatings, adhesives, and printing inks to the automotive, electronics, composites, and packaging industries.

## UVICURE cationic resins

$C^+$

A range of cycloaliphatic epoxy resins, which are key components of epoxy coatings, valued for their high adhesion, low shrinkage, and chemical resistance. In addition, specialist oxetane resins, which are used in conjunction with cycloaliphatic epoxy resins, to improve speed of cure, viscosity control, hardness, and adhesion to difficult substrates. Typically used in metal and glass coatings as well as 3D printing.

## EXPERTISE AND TECHNICAL SUPPORT

Contact us for any queries refarding the use of **SPEEDCURE** and **UVICURE** products.

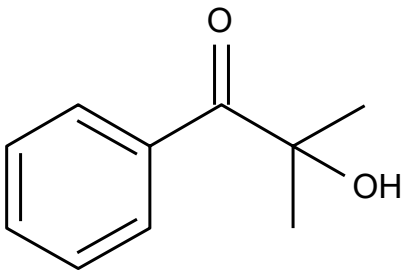
T +44 (0) 1937 840150

www.sartomer.arkema.com

## INDEX

Hydroxyacetophenones /

# SPEEDCURE 73

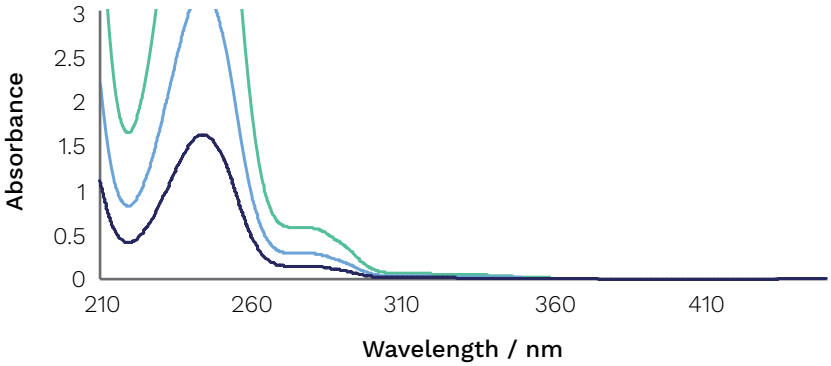



| | |
|---|---|
| **Chemical Name:** | 2-hydroxy-2-methyl-1-phenylpropanone |
| **CAS Number:** | 7473-98-5 |
| **EC Number:** | 231-272-0 |
| **Molecular Weight:** | 164.2 |

## GENERAL INFORMATION

SPEEDCURE 73 is a liquid Norrish Type I photoinitiator from the hydroxyacetophenone family, with an absorption maximum at 244 nm. SPEEDCURE 73 provides low yellowing and surface cure when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




**Concentration**

- 0.010% w/v
- 0.005% w/v
- 0.0025% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow clear liquid |
| **Purity (By GC Area %):** | ≥ 98.0% |

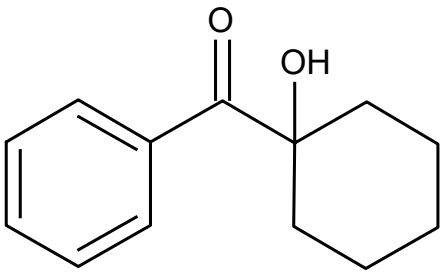
## APPLICATIONS

- Clear coatings
- Pigmented systems
- Water-based systems
- 3D printing
- Adhesives

See page 64 for Global Inventory Status.

Hydroxyacetophenones /

# SPEEDCURE 84

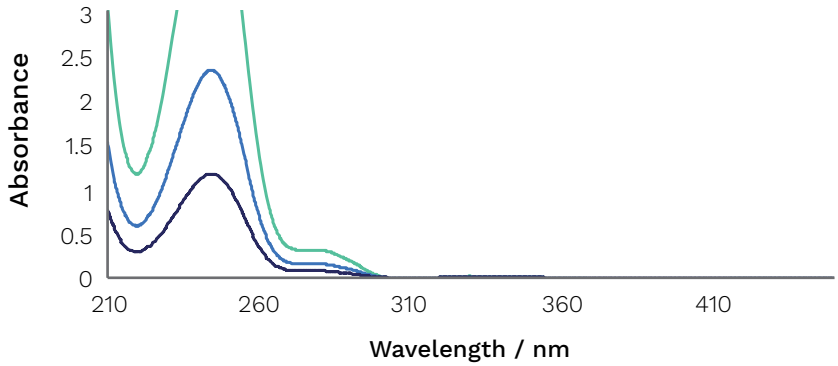



| | |
|---|---|
| **Chemical Name:** | 1-hydroxycyclohexyl phenyl ketone |
| **CAS Number:** | 947-19-3 |
| **EC Number:** | 231-426-9 |
| **Molecular Weight:** | 204.3 |

## GENERAL INFORMATION

SPEEDCURE 84 is a Norrish Type I photoinitiator from the hydroxyacetophenone family, with an absorption maximum at 244 nm. SPEEDCURE 84 provides low yellowing and surface cure when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




**Concentration**

- 0.010% w/v
- 0.005% w/v
- 0.0025% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White solid |
| **Purity (By GC Area %):** | ≥ 99.0% |
| **Melting Point Range:** | 46.0–50.0°C |
| **Loss on Drying (% w/w, 40°C, 16 hours):** | ≤ 0.5% |

## APPLICATIONS

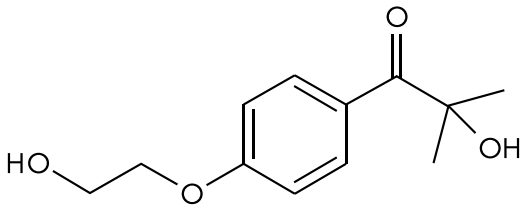
- Clear coatings
- Pigmented systems
- Water-based systems
- 3D printing
- Adhesives

See page 64 for Global Inventory Status.

Hydroxyacetophenones /

# SPEEDCURE 2959

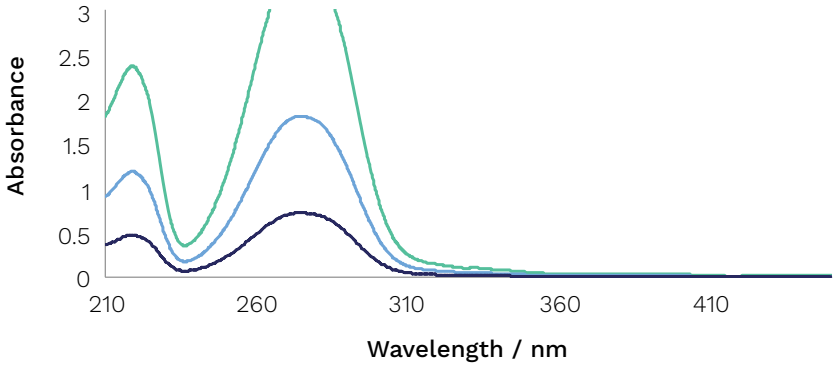
**Chemical Name:** 1-[4-(2-hydroxyethoxy)-phenyl]-2-hydroxy-2-methylpropan-1-one
**CAS Number:** 106797-53-9
**EC Number:** 402-670-3
**Molecular Weight:** 224.3




## GENERAL INFORMATION

SPEEDCURE 2959 is a water-dispersible Norrish Type I photoinitiator from the hydroxyacetophenone family, with absorption maxima at 219 and 275 nm. SPEEDCURE 2959 provides low yellowing and surface cure when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to off-white powder |
| **Purity (By HPLC Area %):** | ≥ 98.0% |
| **Melting Point Range:** | 86.0–90.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |

## APPLICATIONS

- Clear coatings
- Pigmented systems
- White-pigmented systems
- Water-based systems

See page 64 for Global Inventory Status.

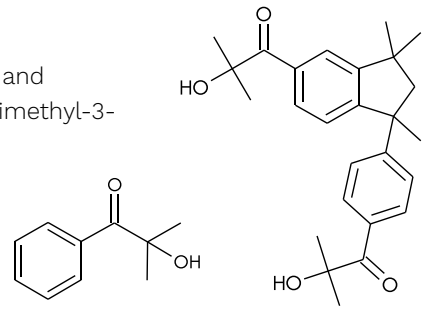
Hydroxyacetophenones /

# SPEEDCURE XFS

**Chemical Name:** A mixture of 2-hydroxy-2-methyl-1-phenylpropan-1-one and 2,3-dihydro-6-(2-hydroxy-2-methyl-1-oxopropyl)-1, 1,3-trimethyl-3-[4-(2-hydroxy-2-methyl-1-oxopropyl)phenyl]-1H-indene

**CAS Number:** 7473-98-5, 163702-01-0

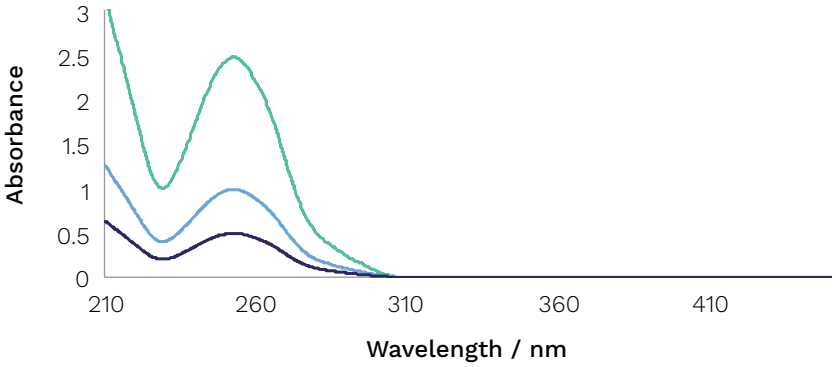
**EC Number:** 231-272-0, 402-990-3




## GENERAL INFORMATION

SPEEDCURE XFs is a blend of difunctional and monofunctional Norrish Type I photoinitiators from the hydroxyacetophenone family,with an absorption maximum at 252 nm. SPEEDCURE XFs provides low yellowing, surface cure, and increased reactivity when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




**Concentration**

- 0.005% w/v
- 0.002% w/v
- 0.001% w/v

**Solvent:** Acetonitrile
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow clear liquid |
| **Water Content (Karl Fischer):** | ≤ 0.5% w/w |
| **Gardner Colour (20% w/v in Acetone):** | ≤ 7.0 |
| **E1/1 (252 nm – Acetonitrile):** | ≥ 450.0 |

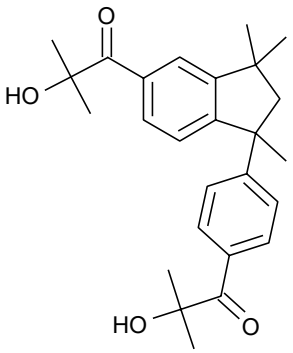
## APPLICATIONS

- Clear coatings
- Pigmented systems
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Hydroxyacetophenones /

# SPEEDCURE XFS01

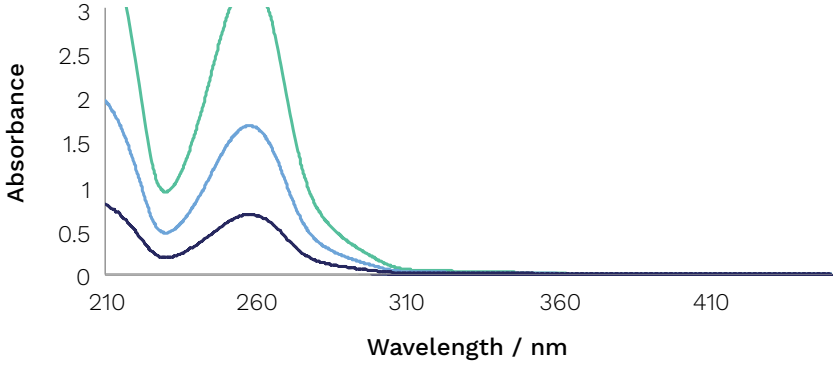



| | |
|---|---|
| **Chemical Name:** | 2,3-dihydro-6-(2-hydroxy-2-methyl-1-oxopropyl)-1,1,3-trimethyl 3-[4-(2-hydroxy-2-methyl-1-oxopropyl)phenyl]-1H-indene |
| **CAS Number:** | 163702-01-0 |
| **EC Number:** | 402-990-3 |
| **Molecular Weight:** | 408.5 |

## GENERAL INFORMATION

SPEEDCURE XFs01 is a difunctional Norrish Type I photoinitiator from the hydroxyacetophenone family, with an absorption maximum at 258 nm. SPEEDCURE XFs01 provides low yellowing, surface cure, and high reactivity when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




**Concentration**

- 0.005% w/v
- 0.0025% w/v
- 0.001% w/v

**Solvent:** Acetonitrile
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance (60°C):** | Pale-yellow to yellow viscous liquid |
| **Water Content (Karl Fischer):** | ≤ 0.5 % w/w |
| **APHA (20% w/v Acetone):** | ≤ 50.0 |
| **E1/1 (252 nm – Acetonitrile):** | ≥ 450.0 |

## APPLICATIONS

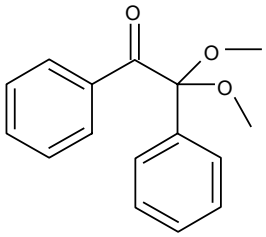
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Acetophenone /

# SPEEDCURE BKL

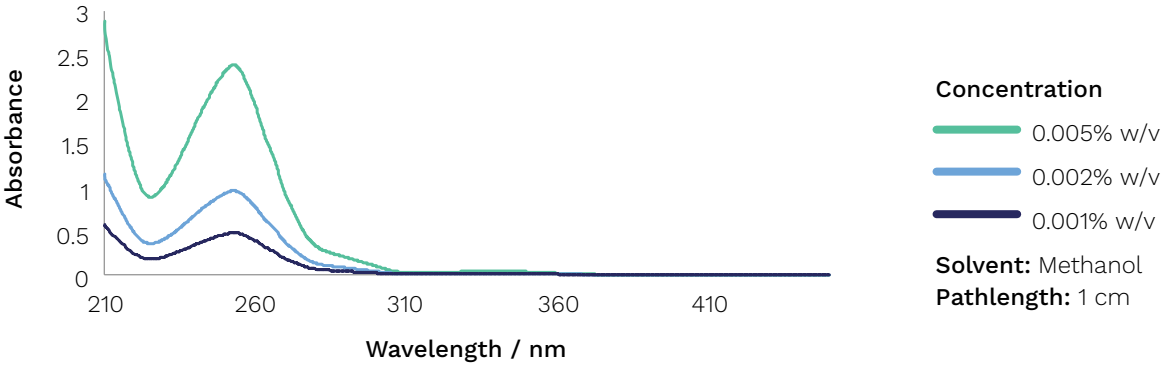
**Chemical Name:** 2,2-dimethoxy-2-phenylacetophenone
**CAS Number:** 24650-42-8
**EC Number:** 246-386-6
**Molecular Weight:** 256.3



## GENERAL INFORMATION

SPEEDCURE BKL is a Norrish Type I photoinitiator from the acetophenone family, with an absorption maximum at 253 nm. SPEEDCURE BKL provides high reactivity and surface cure when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to off-white crystalline powder |
| **Purity (By GC Area %):** | ≥ 99.0% |
| **Melting Point Range:** | 64.0–69.0°C |
| **Loss on Drying (% w/w, 40°C, 16 hours, 50–100 mbar):** | ≤ 0.5% |

## APPLICATIONS

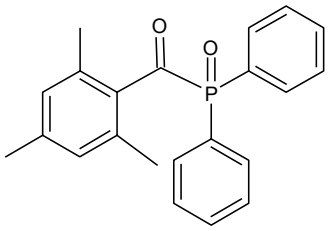
- Pigmented systems
- Black-pigmented systems
- LED curing
- Electronics
- Adhesives
- Composites

See page 64 for Global Inventory Status.

Phosphine Oxides /

# SPEEDCURE TPO

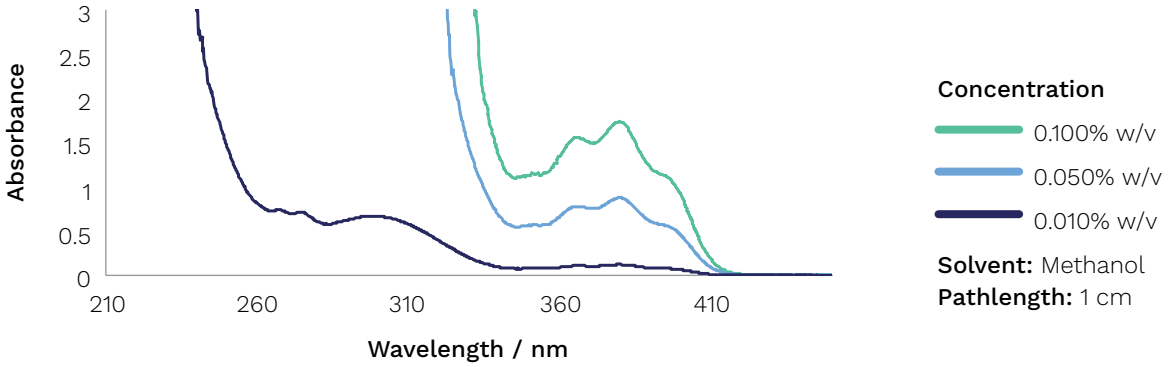
**Chemical Name:** 2,4,6-trimethylbenzoyldiphenylphosphine oxide
**CAS Number:** 75980-60-8
**EC Number:** 278-355-8
**Molecular Weight:** 348.4




## GENERAL INFORMATION

SPEEDCURE TPO is a Norrish Type I photoinitiator from the phosphine oxide family, with absorption maxima at 267, 298, and 380 nm. SPEEDCURE TPO provides high reactivity and depth cure when used at 0.5–5 wt% in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow solid |
| **Assay (By HPLC Area %):** | ≥ 97.0% |
| **Melting Point Range:** | 90.0–95.0°C |
| **Acid Value:** | ≤ 4.0 mg KOH/g |

## APPLICATIONS

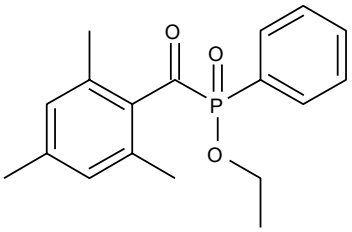
- LED curing
- Composites
- 3D printing
- Adhesives
- Clear coatings
- Pigmented systems
- Electronics
- White-pigmented systems
- Black-pigmented systems

See page 64 for Global Inventory Status.

Phosphine Oxides /

# SPEEDCURE TPO-L

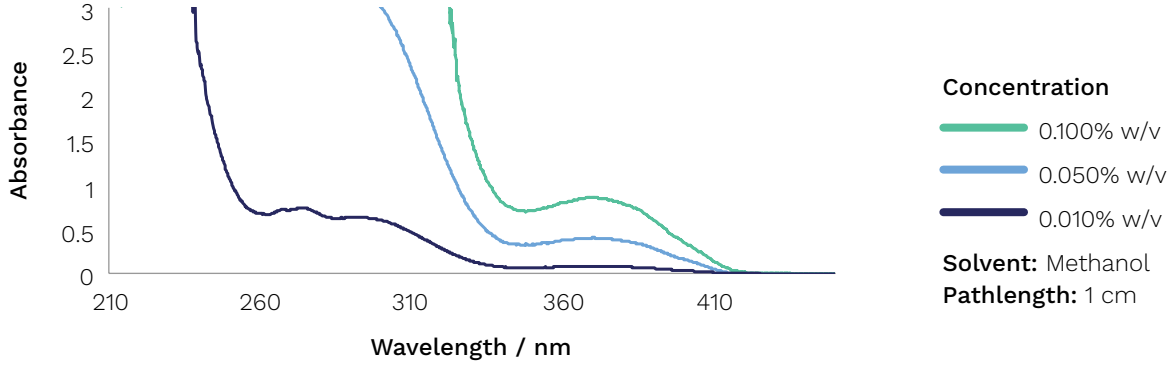
**Chemical Name:** Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
**CAS Number:** 84434-11-7
**EC Number:** 282-810-6
**Molecular Weight:** 316.3




## GENERAL INFORMATION

SPEEDCURE TPO-L is a liquid Norrish Type I photoinitiator from the phosphine oxide family, with absorption maxima at 274, 290, and 370 nm. SPEEDCURE TPO-L provides high reactivity and depth cure when used at 0.5–5 wt% in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Yellow liquid |
| **Purity (By GC Area %):** | ≥ 94.5% |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 1.0% |
| **Acid Value:** | ≤ 1.0 mg KOH/g |

## APPLICATIONS

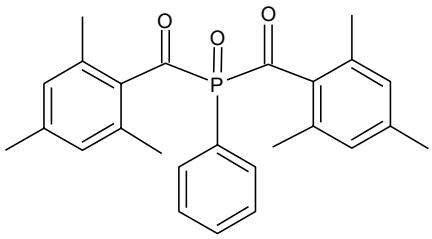
- LED curing
- Electronics
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Water-based systems

See page 64 for Global Inventory Status.

Phosphine Oxides /

# SPEEDCURE BPO

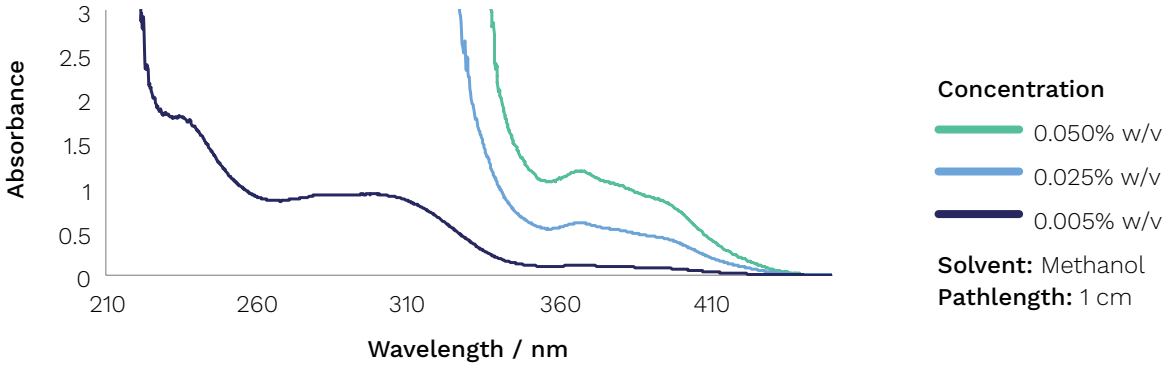
**Chemical Name:** Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
**CAS Number:** 162881-26-7
**EC Number:** 423-340-5
**Molecular Weight:** 418.5




## GENERAL INFORMATION

SPEEDCURE BPO is a Norrish Type I photoinitiator from the phosphine oxide family, with absorption maxima at 281, 365, and 395 nm. SPEEDCURE BPO provides high reactivity and depth cure when used at 0.5–5 wt% in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Off-white to pale-yellow solid |
| **Purity (By HPLC Area %):** | ≥ 98.0% |
| **Melting Point Range:** | 127.0–135.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.2% w/w |

## APPLICATIONS

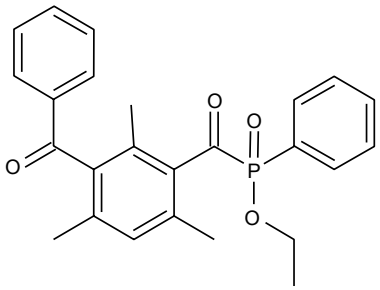
- Adhesives
- Clear coatings
- 3D printing
- Composites
- Electronics
- Pigmented systems
- LED curing
- White-pigmented systems
- Black-pigmented systems

See page 64 for Global Inventory Status.

Phosphine Oxides /

# SPEEDCURE XKM

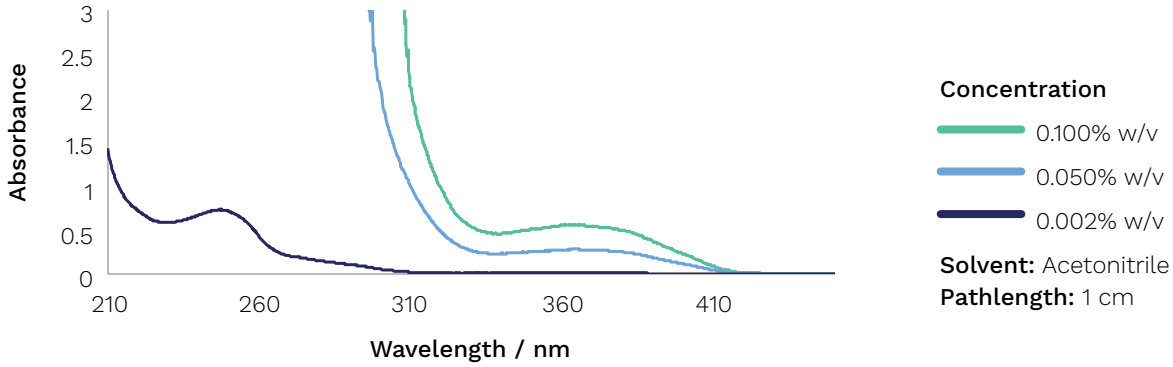
**Chemical Name:** Ethyl(3-benzoyl-2,4,6-trimethylbenzoyl) (phenyl) phosphinate
**CAS Number:** 1539267-56-5
**Molecular Weight:** 420.4




## GENERAL INFORMATION

SPEEDCURE XKm is a hybrid Norrish Type I and Type II photoinitiator from the phosphine oxide family, with absorption maxima at 247 and 364 nm. SPEEDCURE XKm provides high reactivity, surface cure, and depth cure when used at 0.5–5 wt% and combined with an amine synergist in UV-curable formulations.

## UV SPECTRUM




### PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Off-white to beige solid |
| **Assay (By HPLC Area %):** | ≥ 97.0% |
| **Melting Point Range:** | 75.0–92.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |

## APPLICATIONS

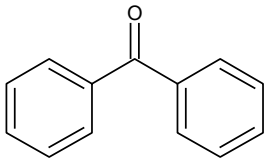
- Adhesives
- Clear coatings
- 3D printing
- Composites
- Electronics
- Pigmented systems
- LED curing
- White-pigmented systems
- Black-pigmented systems

See page 64 for Global Inventory Status.

Benzophenones /

# SPEEDCURE BP

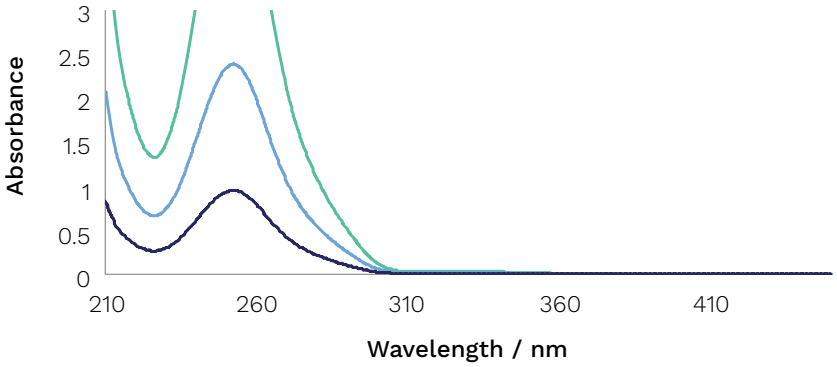
| | |
|---|---|
| **Chemical Name:** | Benzophenone |
| **CAS Number:** | 119-61-9 |
| **EC Number:** | 204-337-6 |
| **Molecular Weight:** | 182.2 |




## GENERAL INFORMATION

SPEEDCURE BP is a Norrish Type II photoinitiator from the benzophenone family, with an absorption maximum at 252 nm. SPEEDCURE BP provides high reactivity and surface cure when used at 0.5–5 wt% and combined with an amine synergist in UV-curable formulations.

## UV SPECTRUM




**Concentration**

- 0.005% w/v
- 0.0025% w/v
- 0.001% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White flakes |
| **Purity (By GC Area %):** | ≥ 99.0% |
| **Melting Point Range:** | 47.0–51.0°C |
| **Loss on Drying (% w/w, 40°C, 16 hours):** | ≤ 0.5% |

## APPLICATIONS

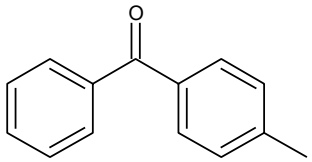
- Clear coatings
- Pigmented systems
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Benzophenones /

# SPEEDCURE MBP

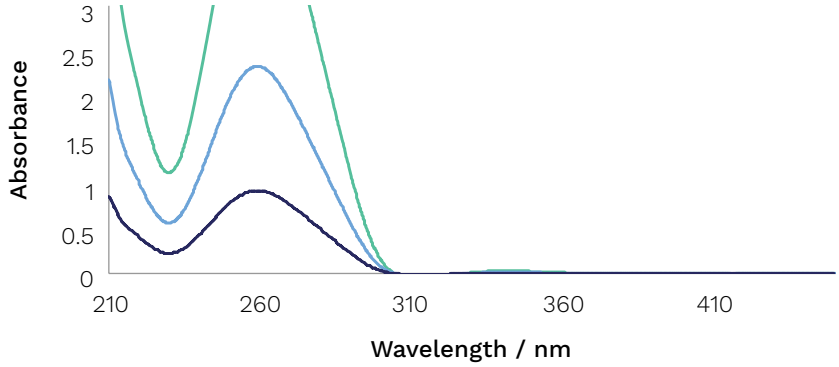
**Chemical Name:** 4-methylbenzophenone
**CAS Number:** 134-84-9
**EC Number:** 205-159-1
**Molecular Weight:** 196.3




## GENERAL INFORMATION

SPEEDCURE MBP is a Norrish Type II photoinitiator from the benzophenone family, with an absorption maximum at 259 nm. SPEEDCURE MBP provides high reactivity and surface cure when used at 0.5–5 wt% and combined with an amine synergist in UV-curable formulations.

## UV SPECTRUM




**Concentration**
0.005% w/v
0.0025% w/v
0.001% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White flakes |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Melting Point Range:** | 55.0–58.0°C |
| **Loss on Drying (% w/w, 40°C, 16 hours):** | ≤ 0.25% |

## APPLICATIONS

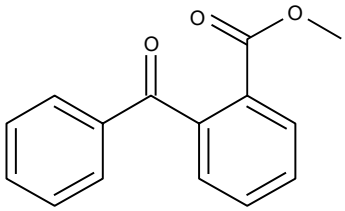
- Clear coatings
- Pigmented systems
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Benzophenones /

# SPEEDCURE MBB

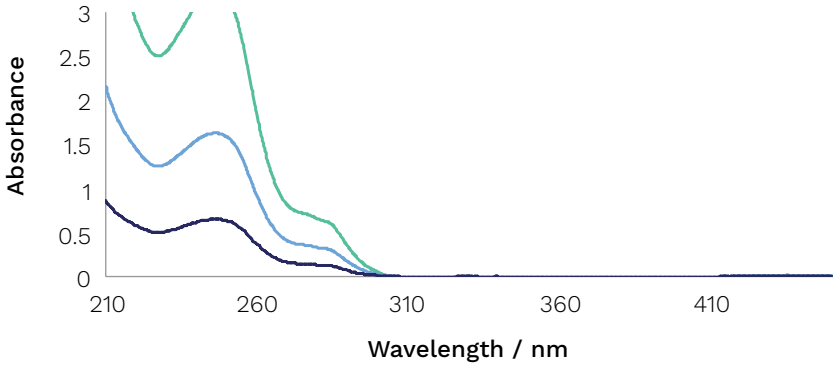
**Chemical Name:** Methyl 2-benzoylbenzoate
**CAS Number:** 606-28-0
**EC Number:** 210-112-3
**Molecular Weight:** 240.3



## GENERAL INFORMATION

SPEEDCURE MBB is a Norrish Type II photoinitiator from the benzophenone family, with an absorption maximum at 246 nm. SPEEDCURE MBB provides surface cure when used at 0.5–5 wt% and combined with an amine synergist in UV-curable formulations.

## UV SPECTRUM




**Concentration**
0.005% w/v
0.0025% w/v
0.001% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to off-white crystalline solid |
| **Purity (By HPLC Area %):** | ≥ 99.0% |
| **Melting Point Range:** | 48.0–54.0°C |
| **Loss on Drying (% w/w, 40°C, 16 hours):** | ≤ 0.5% |

## APPLICATIONS

- Clear coatings
- Pigmented systems
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

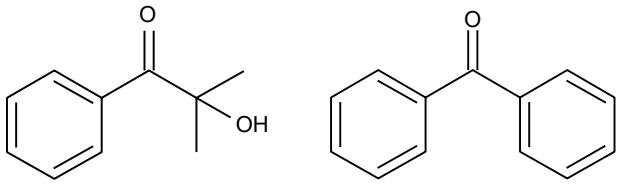
Benzophenones /

# SPEEDCURE 210

**Chemical Name:** A mixture of 2-hydroxy-2-methyl-1-phenylpropanone and benzophenone (a mixture of SPEEDCURE 73 and SPEEDCURE BP)

**CAS Number:** 7473-98-5, 119-61-9

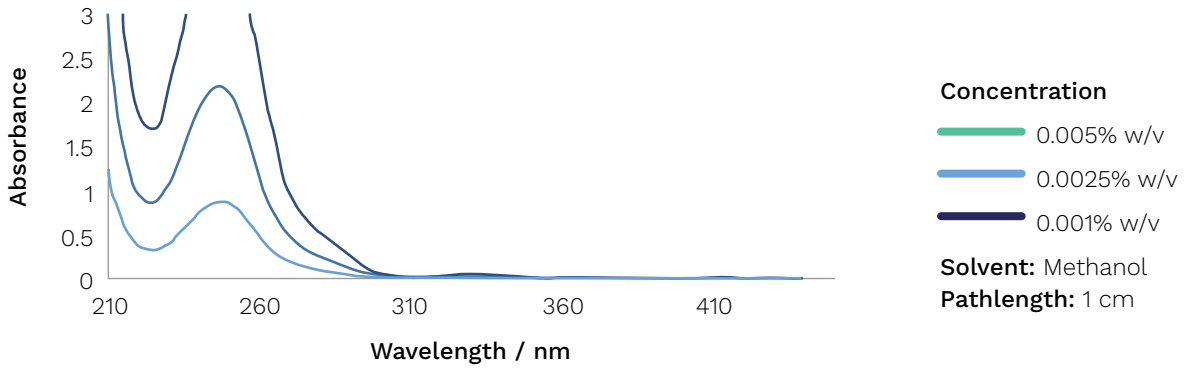
**EC Number:** 231-272-0, 204-337-6




## GENERAL INFORMATION

SPEEDCURE 210 is a blend of Norrish Type I and Type II photoinitiators from the hydroxyacetophenone and benzophenone families, with an absorption maximum at 249 nm. SPEEDCURE 210 provides high reactivity and surface cure when used at 0.5–5 wt% and combined with an amine synergist in UV-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance (40°C):** | Colorless to pale-yellow liquid |
| **SPEEDCURE 73 Content (GC):** | 45.0–55.0% w/w |
| **SPEEDCURE BP Content (GC):** | 45.0–55.0% w/w |

## APPLICATIONS

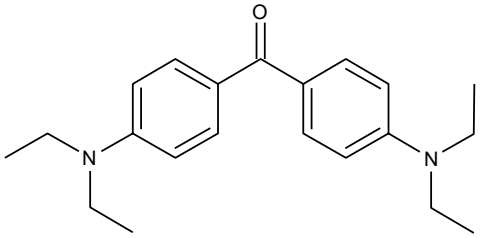
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Water-based systems
- 3D printing
- Adhesives
- Composites

See page 64 for Global Inventory Status.

Benzophenones /

# SPEEDCURE EMK

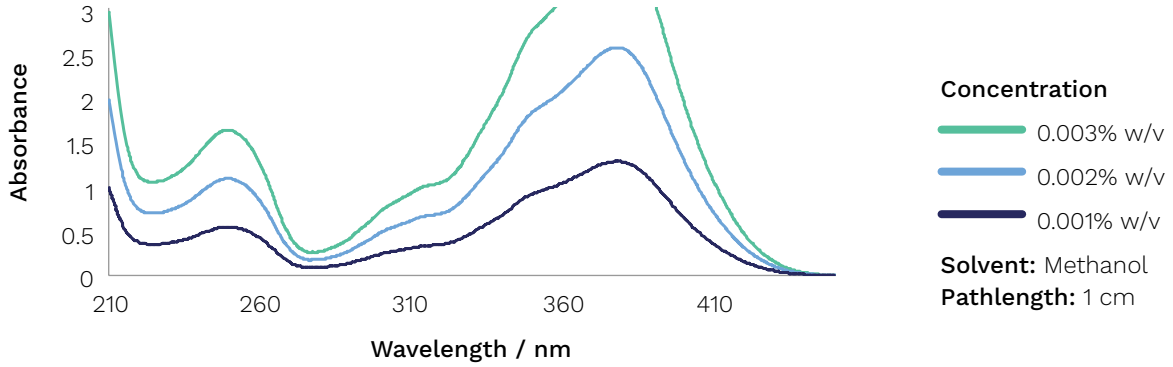
| | |
|---|---|
| **Chemical Name:** | 4,4'-bis(diethylamino)benzophenone |
| **CAS Number:** | 90-93-7 |
| **EC Number:** | 202-025-4 |
| **Molecular Weight:** | 324.5 |




## GENERAL INFORMATION

SPEEDCURE EMK is a Norrish Type II photoinitiator of the benzophenone family and an amine synergist, with absorption maxima at 250 and 378 nm. SPEEDCURE EMK provides high reactivity and depth cure when used at 0.5–5 wt% and combined with an amine synergist in highly pigmented UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow to off-yellow solid |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Melting Point:** | ≥ 92.0°C |
| **Water Content (Karl Fischer):** | ≤ 0.5% w/w |

## APPLICATIONS

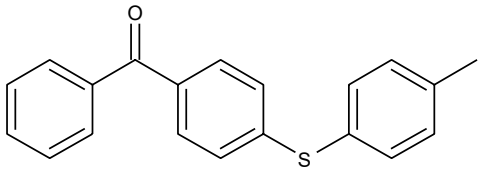
- Pigmented systems
- Black-pigmented systems
- LED curing
- Electronics
- Composites

See page 64 for Global Inventory Status.

Benzophenones /

# SPEEDCURE BMS

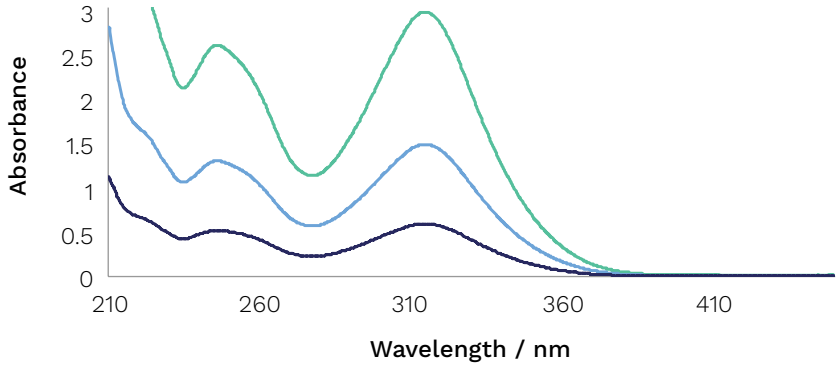
**Chemical Name:** 4-benzoyl-4'-methyldiphenyl sulphide
**CAS Number:** 83846-85-9
**EC Number:** 281-064-9
**Molecular Weight:** 304.4




## GENERAL INFORMATION

SPEEDCURE BMS is a Norrish Type II photoinitiator of the benzophenone family, with absorption maxima at 246 and 315 nm. SPEEDCURE BMS provides high reactivity, surface cure, and depth cure when used at 0.5–5 wt% and combined with an amine synergist in UV- and LED-curable formulations.

## UV SPECTRUM




**Concentration**
0.005% w/v
0.0025% w/v
0.001% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to off-white solid |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Melting Point Range:** | 75.0–85.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |

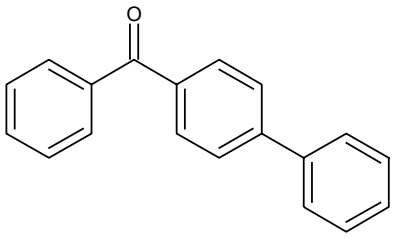
## APPLICATIONS

- Clear coatings
- Pigmented systems
- LED curing
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Benzophenones /

## SPEEDCURE PBZ

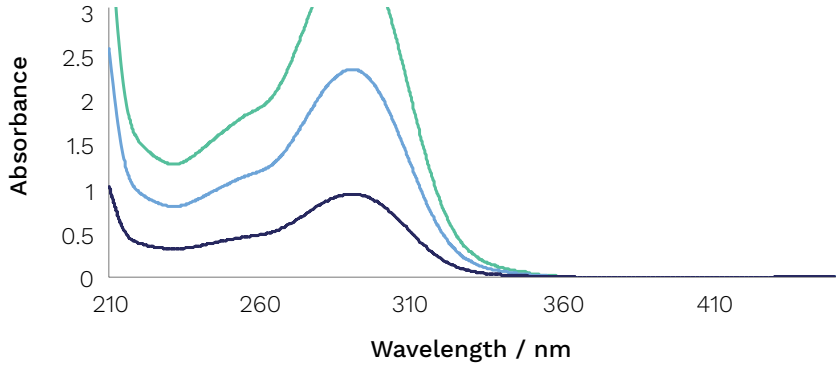


| | |
|---|---|
| **Chemical Name:** | 4-phenylbenzophenone |
| **CAS Number:** | 2128-93-0 |
| **EC Number:** | 218-345-2 |
| **Molecular Weight:** | 258.3 |

### GENERAL INFORMATION

SPEEDCURE PBZ is a Norrish Type II photoinitiator of the benzophenone family, with an absorption maximum at 290 nm. SPEEDCURE PBZ provides high reactivity, surface cure and depth cure when used at 0.5–5 wt% and combined with an amine synergist in UV- and LED-curable formulations.

### UV SPECTRUM




**Concentration**

- 0.005% w/v
- 0.0025% w/v
- 0.001% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

### PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to off-white solid |
| **Purity (By GC Area %):** | ≥ 99.0% |
| **Melting Point Range:** | 99.0–103.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |

### APPLICATIONS

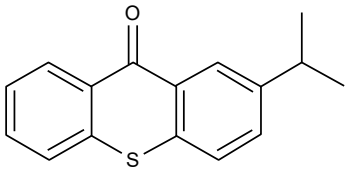
- Pigmented systems
- LED curing
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Thioxanthones /

# SPEEDCURE ITX

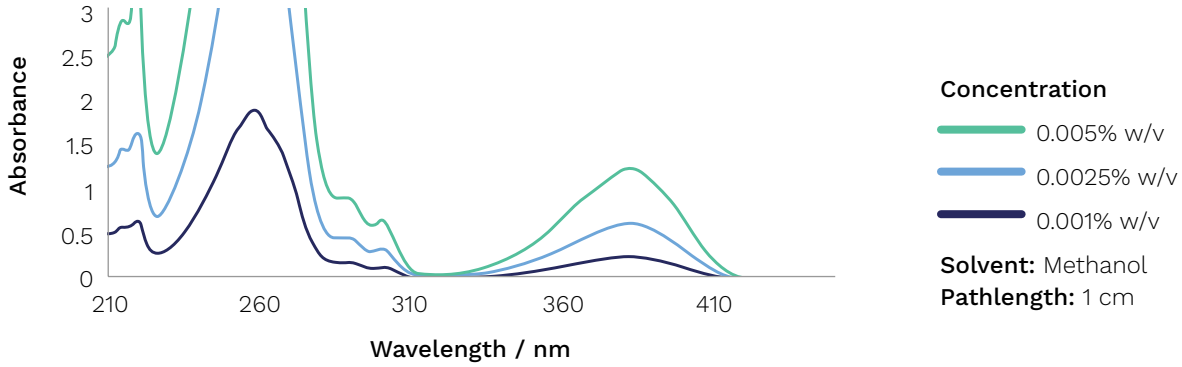
| | |
|---|---|
| **Chemical Name:** | A mixture of 2-isopropylthioxanthone and 4-isopropylthioxanthone |
| **CAS Number:** | 5495-84-1, 83846-86-0 |
| **EC Number:** | 226-827-9, 281-065-4 |
| **Molecular Weight:** | 254.3 254.3 |




## GENERAL INFORMATION

SPEEDCURE ITX is a Norrish Type II photoinitiator of the thioxanthone family, with absorption maxima at 259 and 383 nm. SPEEDCURE ITX provides long wavelength sensitisation of appropriate photoinitiators and depth cure when used at 0.1-5 wt% and combined with an amine synergist in UV and LED curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Cream to pale yellow solid |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Melting Point Range:** | 56.0–72.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |

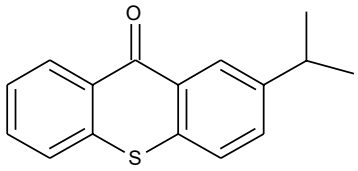
## APPLICATIONS

- Pigmented systems
- Black pigmented systems
- LED curing

See page 64 for Global Inventory Status.

Thioxanthones /

# SPEEDCURE 2-ITX

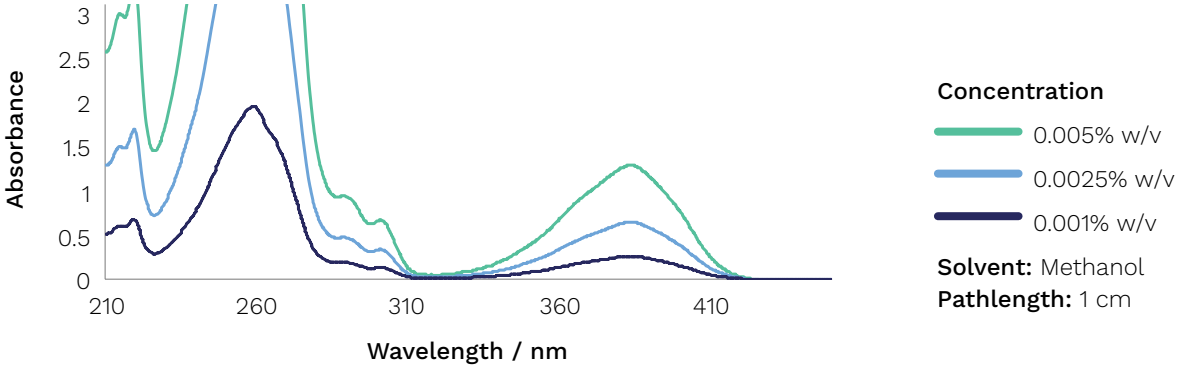



| | |
|---|---|
| **Chemical Name:** | 2-isopropylthioxanthone |
| **CAS Number:** | 5495-84-1 |
| **EC Number:** | 226-827-9 |
| **Molecular Weight:** | 254.3 |

## GENERAL INFORMATION

SPEEDCURE 2-ITX is a Norrish Type II photoinitiator of the thioxanthone family, with absorption maxima at 259 and 383 nm. SPEEDCURE 2-ITX provides long-wavelength sensitisation of appropriate photoinitiators and depth cure when used at 0.1–5 wt% and combined with an amine synergist in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Cream to pale-yellow solid |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Melting Point Range:** | 70.0–76.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |

## APPLICATIONS

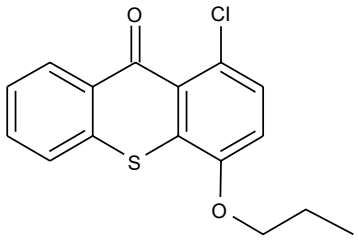
- Pigmented systems
- Black-pigmented systems
- LED curing

See page 64 for Global Inventory Status.

Thioxanthones /

# SPEEDCURE CPTX

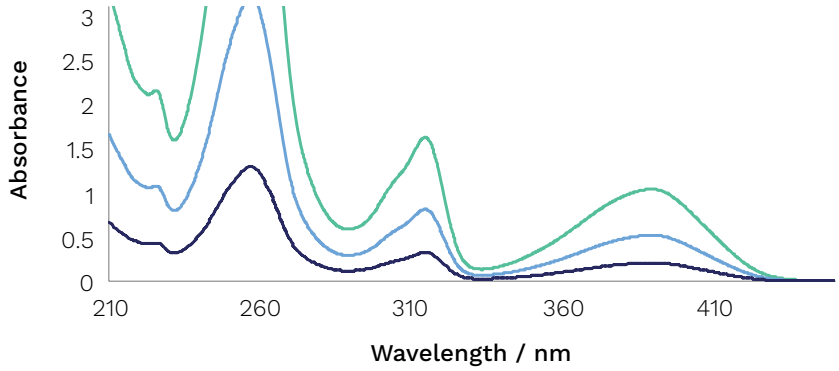
**Chemical Name:** 1-chloro-4-propoxythioxanthone
**CAS Number:** 142770-42-1
**EC Number:** 415-890-1
**Molecular Weight:** 304.8




## GENERAL INFORMATION

SPEEDCURE CPTX is a Norrish Type II photoinitiator of the thioxanthone family, with absorption maxima at 257, 314, and 389 nm. SPEEDCURE CPTX provides long-wavelength sensitisation of appropriate photoinitiators and depth cure when used at 0.1–5 wt% and combined with an amine synergist in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Yellow solid |
| **Assay (By GC Area %):** | ≥ 97.0% |
| **Melting Point Range:** | 99.0–104.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |
| **Gardner Colour (5% w/v Toluene):** | ≤ 11.0 |
| **Insoluble Matter (5% w/v Toluene):** | Essentially clear |

## APPLICATIONS

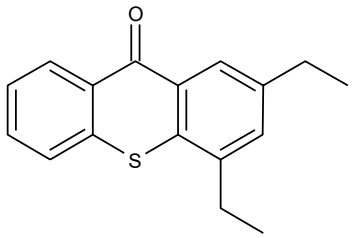
- LED curing
- Electronics
- Adhesives
- Composites
- Pigmented systems
- Black-pigmented systems
- Metal coatings
- Glass coatings

See page 64 for Global Inventory Status.

Thioxanthones /

# SPEEDCURE DETX

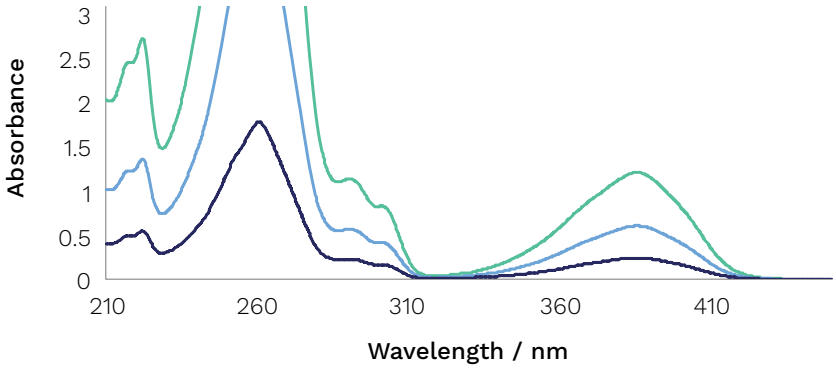
**Chemical Name:** 2,4-diethylthioxanthone
**CAS Number:** 82799-44-8
**EC Number:** 280-041-0
**Molecular Weight:** 268.3




## GENERAL INFORMATION

SPEEDCURE DETX is a Norrish Type II photoinitiator of the thioxanthone family, with absorption maxima at 261, 291, and 386 nm. SPEEDCURE DETX provides long-wavelength sensitisation of appropriate photoinitiators and depth cure when used at 0.1–5 wt% and combined with an amine synergist in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow to yellow solid |
| **Purity (By GC Area %):** | ≥ 99.0% |
| **Melting Point Range:** | 68.0–75.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.25% |

## APPLICATIONS

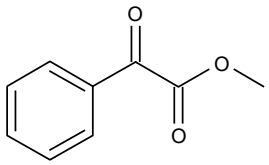
- Pigmented systems
- Black-pigmented systems
- LED curing

See page 64 for Global Inventory Status.

Benzoylformate /

# SPEEDCURE MBF

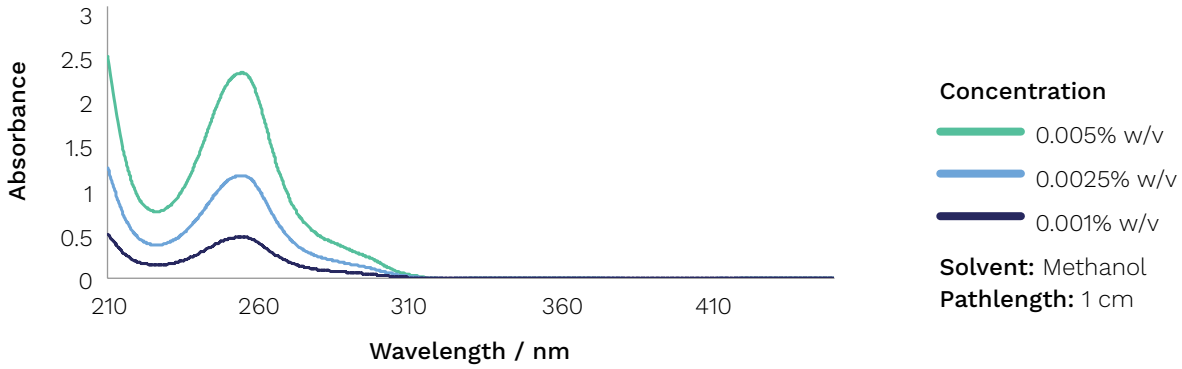
**Chemical Name:** Methyl benzoylformate
**CAS Number:** 15206-55-0
**EC Number:** 239-263-3
**Molecular Weight:** 164.2



## GENERAL INFORMATION

SPEEDCURE MBF is a liquid Norrish Type II photoinitiator of the benzoylformate family, with an absorption maximum at 244 nm. SPEEDCURE MBF provides very low yellowing and surface cure when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow clear liquid |
| **Purity (By GC Area %):** | ≥ 99.0% |
| **Boiling Point:** | 246.0–250.0°C |
| **Density (25°C):** | 1.15–1.17 g/cm$^3$ |

## APPLICATIONS

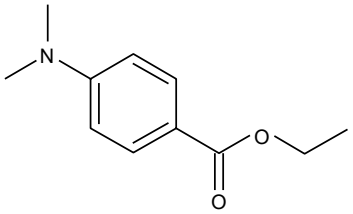
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Water-based systems
- 3D printing
- Adhesives

See page 64 for Global Inventory Status.

Aminobenzoates /

# SPEEDCURE EDB

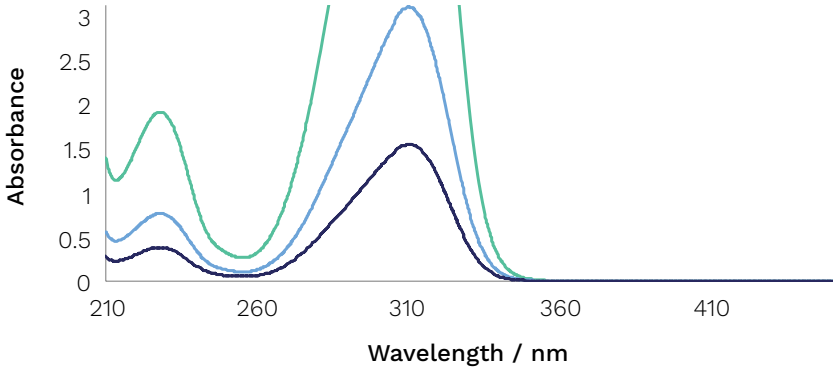
**Chemical Name:** Ethyl 4-(dimethylamino)benzoate
**CAS Number:** 10287-53-3
**EC Number:** 233-634-3
**Molecular Weight:** 193.2




## GENERAL INFORMATION

SPEEDCURE EDB is an amine synergist of the aminobenzoate family. SPEEDCURE EDB generates active species when used at 2–8 wt% in combination with Norrish Type II photoinitiators and reduces oxygen inhibition in UV- and LED-curable formulations.

## UV SPECTRUM




**Concentration**
0.005% w/v
0.002% w/v
0.001% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to off-white solid |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Melting Point Range:** | 62.0–68.0°C |
| **Water Content (Karl Fischer):** | ≤ 0.2% w/w |

## APPLICATIONS

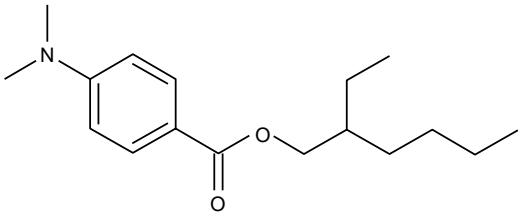
- Pigmented systems
- LED curing
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Aminobenzoates /

# SPEEDCURE EHA

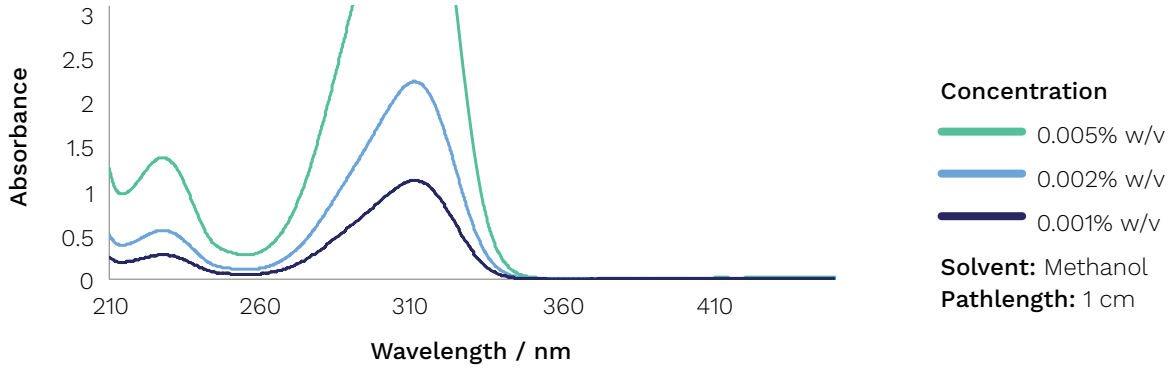
**Chemical Name:** 2-ethylhexyl 4-(dimethylamino)benzoate
**CAS Number:** 21245-02-3
**EC Number:** 244-289-3
**Molecular Weight:** 277.4




## GENERAL INFORMATION

SPEEDCURE EHA is a liquid amine synergist of the aminobenzoate family. SPEEDCURE EHA generates active species when used at 2–8 wt% in combination with Norrish Type II photoinitiators and reduces oxygen inhibition in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow clear liquid |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Loss on Drying (% w/w, 60°C 3 hours, 50–100 mbar):** | ≤ 1.0% |
| **Gardner Colour (Neat):** | ≤ 2.0 |

## APPLICATIONS

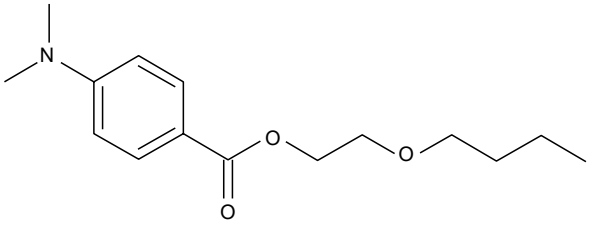
- Pigmented systems
- LED curing
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Aminobenzoates /

# SPEEDCURE BEDB

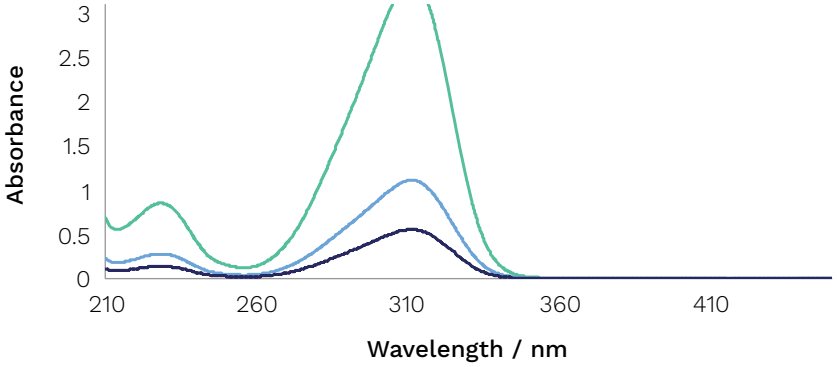
**Chemical Name:** 2-butoxyethyl 4-(dimethylamino)benzoate
**CAS Number:** 67362-76-9
**EC Number:** 266-668-2
**Molecular Weight:** 265.4




## GENERAL INFORMATION

SPEEDCURE BEDB is a liquid amine synergist of the aminobenzoate family. SPEEDCURE BEDB generates active species when used at 2–8 wt% in combination with Norrish Type II photoinitiators and reduces oxygen inhibition in UV- and LED-curable formulations.

## UV SPECTRUM




**Concentration**
0.003% w/v
0.001% w/v
0.0005% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Colourless to pale-yellow clear liquid |
| **Purity (By GC Area %):** | ≥ 97.0% |
| **Loss on Drying (% w/w, 60°C, 3 hours under vacuum):** | ≤ 1.0% w/w |

## APPLICATIONS

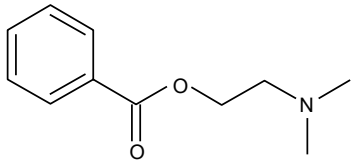
- Pigmented systems
- Water-based systems
- LED curing
- Adhesives

See page 64 for Global Inventory Status.

Tertiary Amine /

# SPEEDCURE DMB

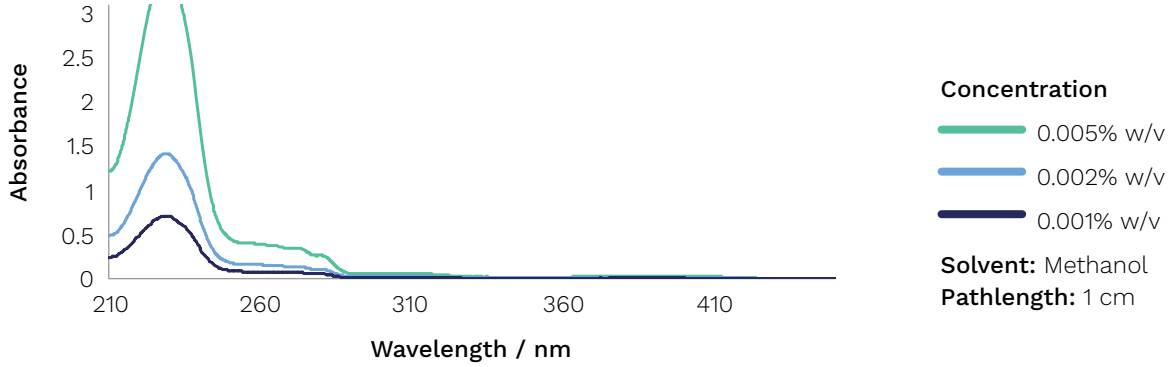
**Chemical Name:** 2-(dimethylamino)ethyl benzoate
**CAS Number:** 2208-05-1
**EC Number:** 218-630-1
**Molecular Weight:** 193.2




## GENERAL INFORMATION

SPEEDCURE DMB is an amine synergist of the aliphatic amine family. SPEEDCURE DMB generates active species when used at
2–8 wt% in combination with Norrish Type II photoinitiators and reduces oxygen inhibition in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow liquid |
| **Assay (By GC Area %):** | ≥ 95.0% |
| **Water Content (Karl Fischer):** | ≤ 0.5% w/w |
| **Gardner Colour (Neat):** | ≤ 2.0 |

## APPLICATIONS

- Pigmented systems
- LED curing
- Adhesives

See page 64 for Global Inventory Status.

Polymeric Benzophenone /

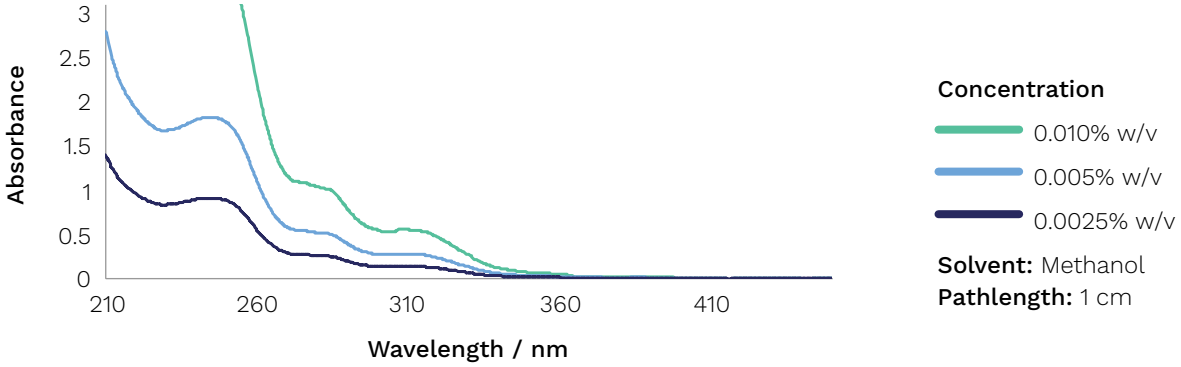
# SPEEDCURE 7005

**Chemical Name:** Polymeric benzophenone
**CAS Number:** 1003557-16-1, 1003567-82-5

## GENERAL INFORMATION

SPEEDCURE 7005 is a polymeric photoinitiator suitable for use when benzophenone-free formulations are required. It will induce rapid photopolymerisation when formulated with a suitable polymeric tertiary amine synergist, such as SPEEDCURE 7040. Although the product has been developed for low-migration systems, the amount of migrating species should be checked by the customer in their final formulations as there are many factors that can affect photoinitiator migration.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow to yellow clear liquid |
| **Active Content:** | ≥ 97.0% |
| **Total Monomeric Species Content (HPLC):** | ≤ 2.5% w/w |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |

## APPLICATIONS

- Clear coatings
- Pigmented systems
- White-pigmented systems
- Low-migration systems

See page 64 for Global Inventory Status.

Polymeric Thioxanthones /

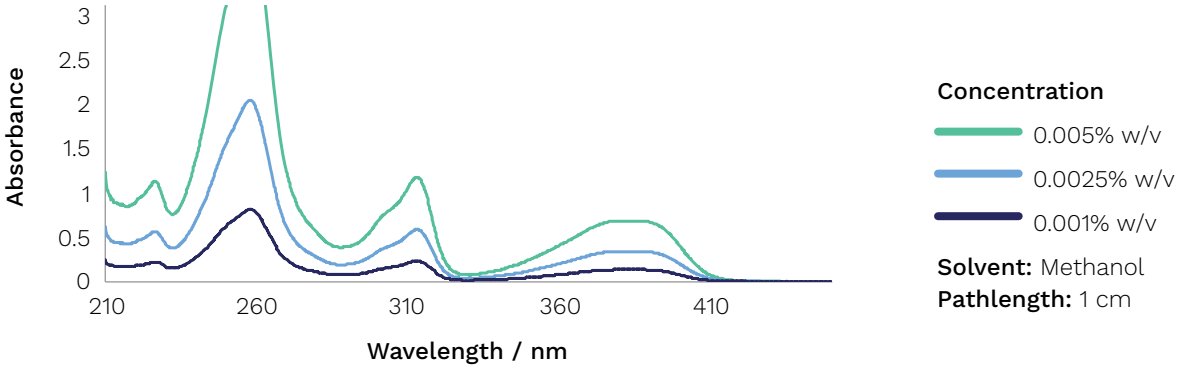
# SPEEDCURE 7010

**Chemical Name:** Polymeric thioxanthone
**CAS Number:** 1003567-83-6

## GENERAL INFORMATION

SPEEDCURE 7010 is a polymeric Norrish Type II photoinitiator of the thioxanthone family, with absorption maxima at 257, 312, and 383 nm. SPEEDCURE 7010 provides long-wavelength sensitisation of appropriate photoinitiators, depth cure, low odour, and low migration when used at 0.1–8 wt% and combined with an amine synergist in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Cream to pale-yellow solid |
| **Active Content:** | ≥ 97.75% w/w |
| **Total Monomeric Species Content (HPLC):** | ≤ 1.75% w/w |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.5% |
| **Gardner Colour (10% w/v Toluene):** | ≤ 7.0 |

## APPLICATIONS

- Pigmented systems
- Black-pigmented systems
- LED curing
- Low-migration systems

See page 64 for Global Inventory Status.

Polymeric Thioxanthones /

# SPEEDCURE 7010-L

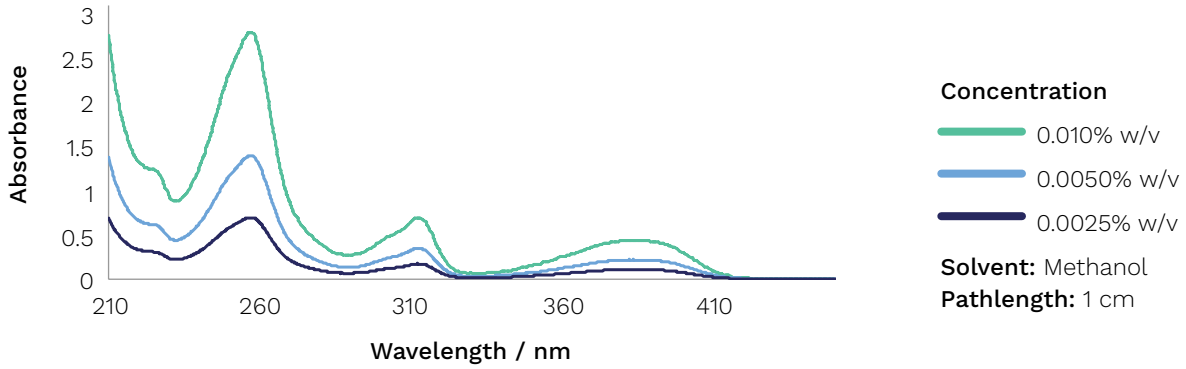
**Chemical Name:** A solution of polymeric thioxanthone in 2-[2,2-bis(2-prop-2-enoyloxyethoxymethyl) butoxy]ethyl prop-2-enoate

**CAS Number:** 1003567-83-6, 28961-43-5

## GENERAL INFORMATION

SPEEDCURE 7010-L is a 40% active liquid polymeric Norrish Type II photoinitiator of the polymeric thioxanthone family. SPEEDCURE 7010-L provides long-wavelength sensitisation of appropriate photoinitiators, depth cure, low odour, and low migration when used at 0.1–10 wt% and combined with an amine synergist in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow liquid |
| **Total Active Content (manufacturing records):** | 38.0–42.0% w/w |

## APPLICATIONS

- Clear coatings
- Pigmented systems
- White-pigmented systems
- LED curing
- Low-migration sytstems

See page 64 for Global Inventory Status.

Polymeric Amine Synergist /

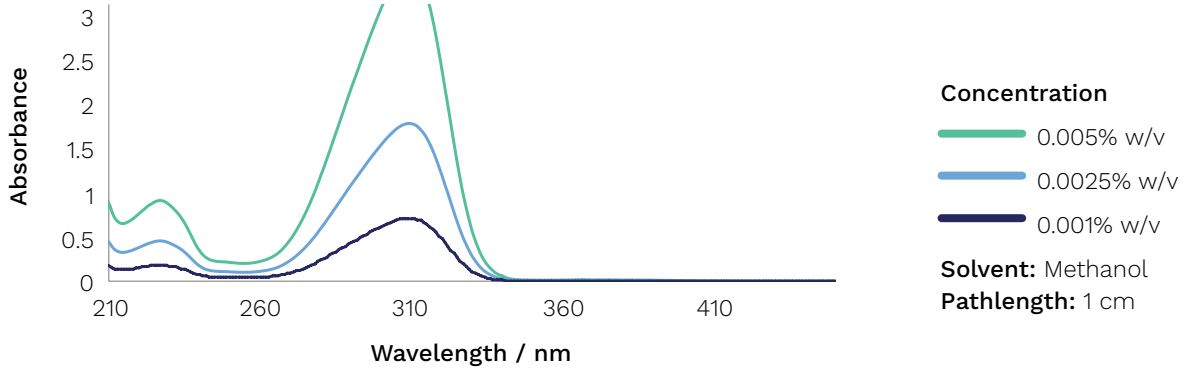
# SPEEDCURE 7040

**Chemical Name:** Polymeric Amine Synergist
**CAS Number:** 1003567-84-7, 1003557-17-2

## GENERAL INFORMATION

SPEEDCURE 7040 is a liquid polymeric amine synergist of the aminobenzoate family. SPEEDCURE 7040 provides low odour and low migration and generates active species when used at 2–10 wt% and combined with Norrish Type II photoinitiators in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-amber liquid |
| **Assay (By difference):** | ≥ 94.5% w/w |
| **Total Monomeric Species Content (HPLC):** | ≤ 5.0% w/w |
| **Loss on Drying (% w/w, 60°C, 3 hours under vacuum):** | ≤ 0.5% w/w |

## APPLICATIONS

- Clear coatings
- Pigmented systems
- White-pigmented systems
- LED curing
- Low-migration systems

See page 64 for Global Inventory Status.

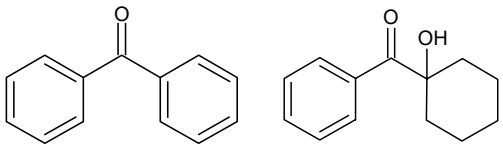
Benzophenones /

# SPEEDCURE 500

**Chemical Name:** A mixture of 1-hydroxycyclohexyl phenyl ketone and benzophenone (a mixture of SPEEDCURE 84 and SPEEDCURE BP)

**CAS Number:** 947-19-3, 119-61-9

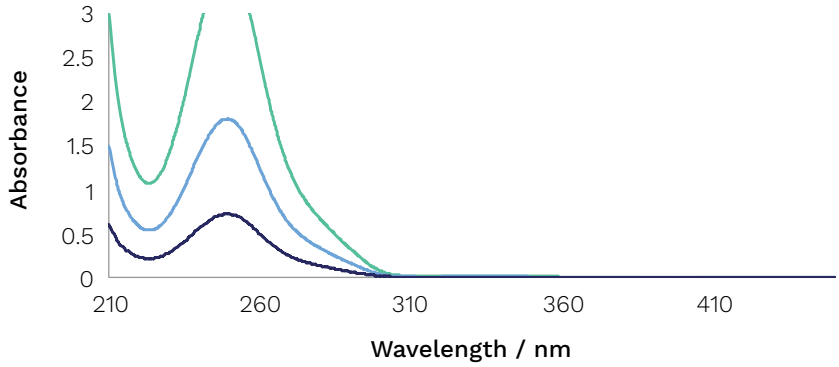
**EC Number:** 213-426-9, 204-337-6




## GENERAL INFORMATION

SPEEDCURE 500 is a blend of Norrish Type I and Type II photoinitiators from the hydroxyacetophenone and benzophenone families, with an absorption maximum at 249 nm. SPEEDCURE 500 provides high reactivity and surface cure when used at 0.5–5 wt% and combined with an amine synergist in UV-curable formulations.

## UV SPECTRUM




**Concentration**

0.005% w/v

0.0025% w/v

0.001% w/v

**Solvent:** Methanol

**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

**Appearance:** Colourless to slightly yellow liquid

**SPEEDCURE 84 Content (By GC Area %):** 45.0–55.0%

**SPEEDCURE BP Content (By GC Area %):** 45.0–55.0%

## APPLICATIONS

- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Water-based systems
- 3D printing
- Adhesives
- Composites

See page 64 for Global Inventory Status.

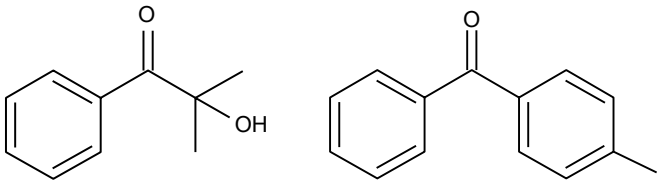
Benzophenones /

# SPEEDCURE 510

**Chemical Name:** A mixture of 2-hydroxy-2-methylpropiophenone and 4-methylbenzophenone (A mixture of Speedcure 73 and Speedcure MBP)

**CAS Number:** 7473-98-5, 134-84-9

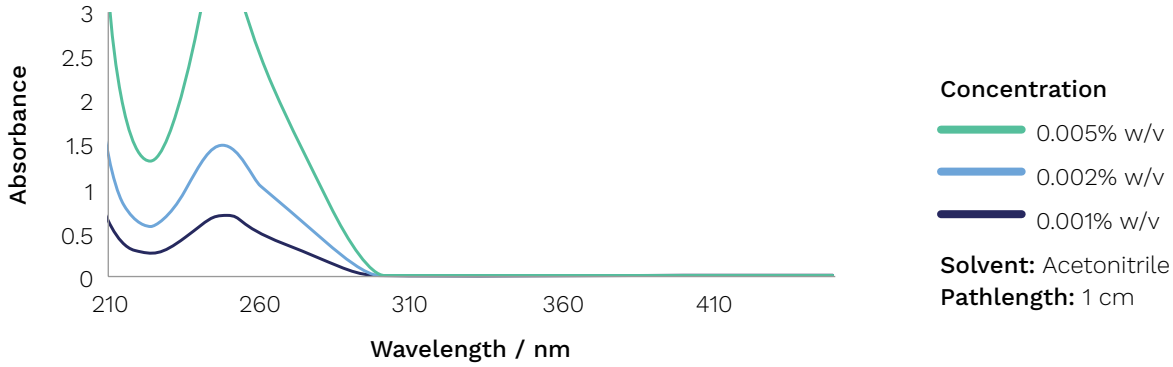
**EC Number:** 231-272-0, 205-159-1




## GENERAL INFORMATION

SPEEDCURE 510 is a blend of Norrish Type I and Norrish Type II photoinitiators from the hydroxyacetophenone and benzophenone families, with an absorption maximum at 249 nm. SPEEDCURE 510 provides high reactivity and surface cure when used at 0.5-5 wt% and combined with an amine synergist in UV curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Colourless to pale yellow clear liquid |
| **Active Content (GC Area %):** | ≥ 98.0% |
| **APHA (Neat):** | ≤ 75.0 |

## APPLICATIONS

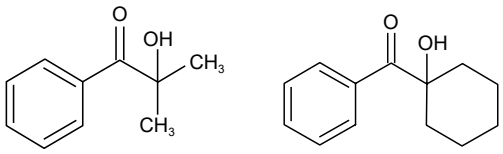
- Clear coatings
- Pigmented systems
- Adhesives
- Water based systems
- Wood coatings
- Composites

See page 64 for Global Inventory Status.

Hydroxyacetophenone /

# SPEEDCURE 520

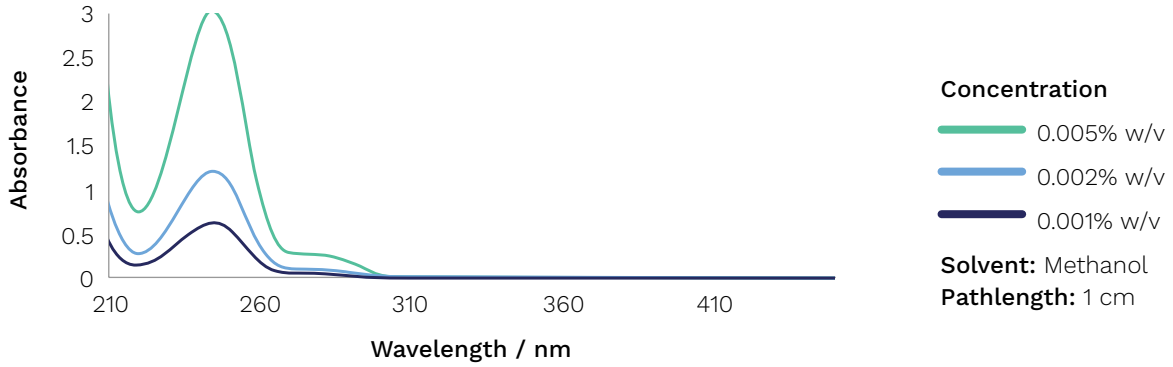
**Chemical Name:** A mixture of 2-Hydroxy-2-methyl-1-phenylpropanone and 1-hydroxycyclohexyl phenyl ketone
**CAS Number:** 7473-98-5, 947-19-3
**EC Number:** 231-272-0, 213-426-9




## GENERAL INFORMATION

PI-002-2022 (SPEEDCURE 520) is a liquid Norrish Type I photoinitiator from the hydroxyacetophenone family, with an absorption maximum at 244 nm. PI-022-2022 (SPEEDCURE 520) provides low yellowing and surface cure when used at 0.5-5 wt% in UV curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance (40°C):** | Colourless to pale yellow clear liquid |
| **Water Content (Karl Fischer):** | ≤ 0.5 %w/w |
| **APHA (Neat):** | ≤ 75.0 |

## APPLICATIONS

- Adhesives and Sealants
- Printing Inks
- Inkjet Inks
- OPV
- Nail care
- Wood coatings
- Industrial coatings

See page 64 for Global Inventory Status.

Formulated Photoinitiator Products /

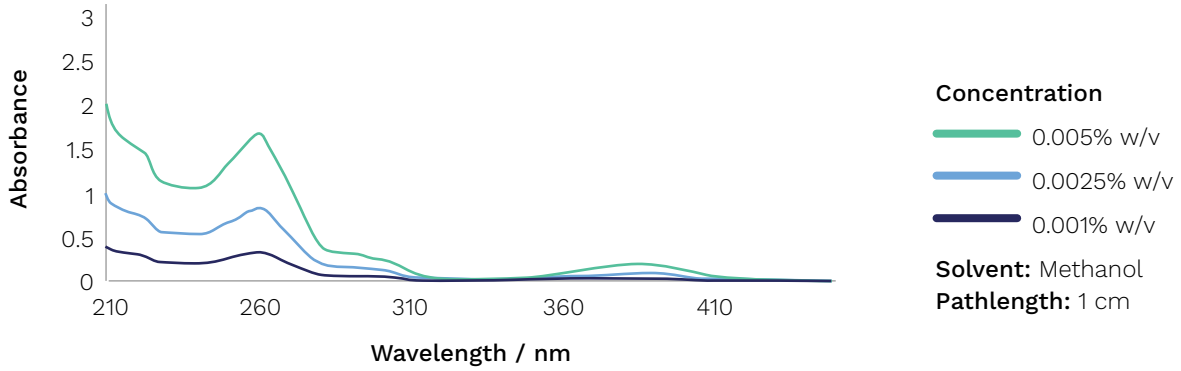
# SPEEDCURE TEM

**Chemical Name:** Emulsion of photoinitiators
**CAS Number:** 84434-11-7, 1539267-56-5, 2634-33-5
**EC Number:** 282-810-6, n/a, 220-120-9

## GENERAL INFORMATION

SPEEDCURE TEM is a stable photoinitiator emulsion with absorption maxima at 260 and 370 nm. SPEEDCURE TEM provides high reactivity, improved cured film properties, and enhanced formulation compatibility when used at 2–10 wt% in water-based UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

**Appearance:** Cream-coloured, uniform, free-flowing liquid
**Solids Content (2 g, 105°C, 2 hours):** 47.5–52.5% w/w

## APPLICATIONS

- Water-based clear wood coatings
- Water-based pigmented wood coatings
- Other water-based specialty coatings

See page 64 for Global Inventory Status.

Formulated Photoinitiator Products /

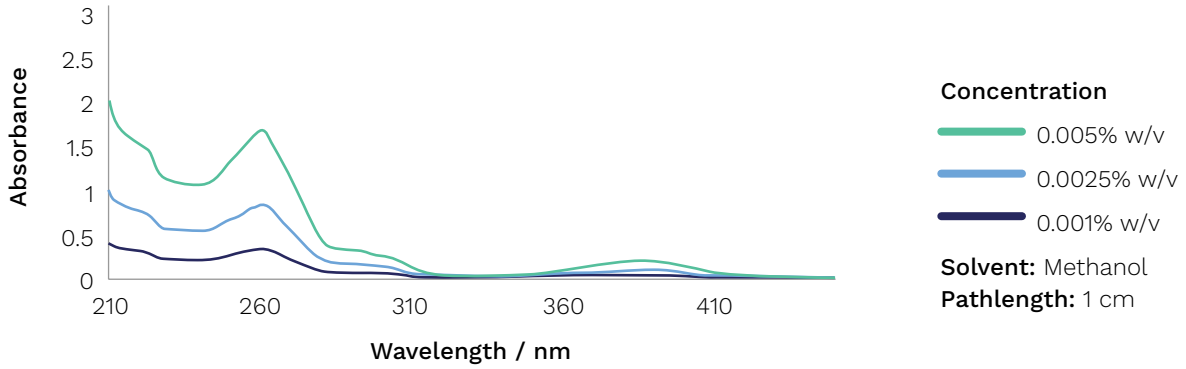
# SPEEDCURE KEM

**Chemical Name:** Emulsion of photoinitiators
**CAS Number:** 84434-11-7, 1539267-56-5, 2634-33-5
**EC Number:** 282-810-6, n/a, 220-120-9

## GENERAL INFORMATION

SPEEDCURE KEM is photoinitiator emulsion with absorption maxima at 260, 290, and 370nm. SPEEDCURE KEM provides high reactivity when used at 2–10 wt% in water-based UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

**Appearance:** Cream-coloured, uniform, free-flowing liquid
**Active Content:** 38.0–52.0% w/w
**Viscosity (LV, Sp2, 6 rpm @ 25°C):** 1,750.0–5,250.0 cPs

## APPLICATIONS

- Adhesives
- Clear coatings
- Water-based UV and LED curing
- Water-based inkjet inks
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems

See page 64 for Global Inventory Status.

Formulated Photoinitiator Products /

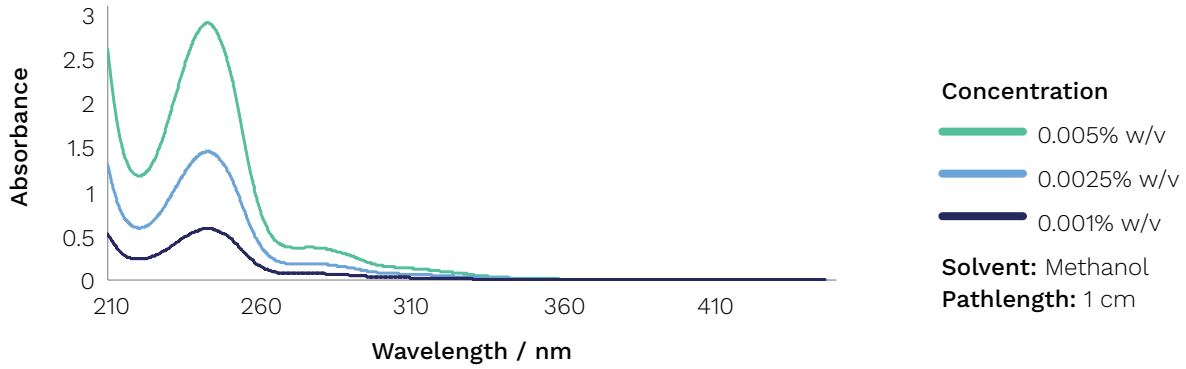
# SPEEDCURE 2022

**Chemical Name:** A blend of SPEEDCURE 73, SPEEDCURE BPO, and SPEEDCURE TPO-L
**CAS Number:** 7473-98-5, 84434-11-7, 162881-26-7
**EC Number:** 231-272-0, 282-810-6, 423-340-5

## GENERAL INFORMATION

SPEEDCURE 2022 is a liquid formulated blend of photoinitiators, with absorption maxima at 243 and 280 nm. SPEEDCURE 2022 provides balanced curing in a broad range of applications when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Yellow liquid |
| **Water Content (Karl Fischer):** | ≤ 0.5% w/w |
| **Gardner Colour (Neat):** | ≤ 8.0 |

## APPLICATIONS

- Clear coatings
- 3D printing
- Adhesives
- Composites
- Black-pigmented systems
- Water-based systems
- White-pigmented systems
- Pigmented systems

See page 64 for Global Inventory Status.

Formulated Photoinitiator Products /

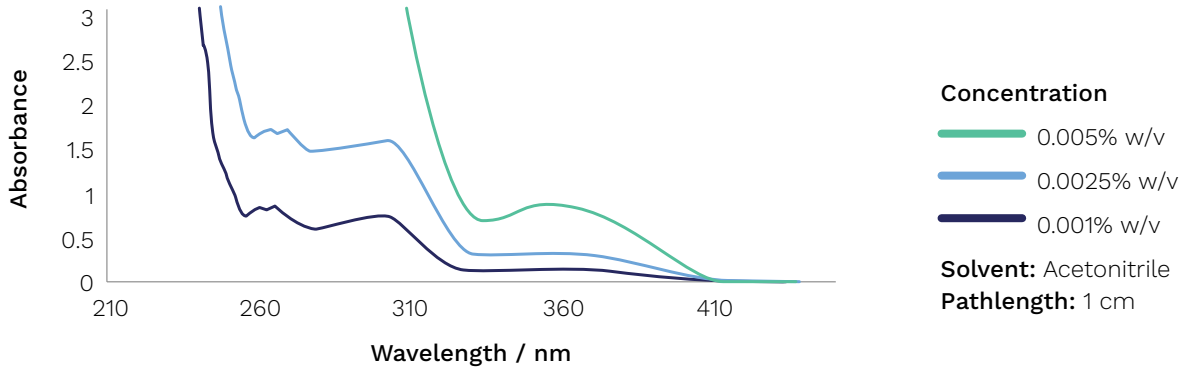
# SPEEDCURE 2100

**Chemical Name:** A blend of SPEEDCURE TPO-L and SPEEDCURE BPO
**CAS Number:** 84434-11-7, 162881-26-7
**EC Number:** 282-810-6, 423-340-5

## GENERAL INFORMATION

SPEEDCURE 2100 is a liquid formulated blend of photoinitiators, with absorption maxima at 228, 272, and 368 nm. SPEEDCURE 2100 provides excellent depth curing for a broad range of applications when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Yellow liquid |
| **Water Content (Karl Fischer):** | ≤ 0.5% w/w |
| **Gardner Colour (Neat):** | ≤ 8.0 |

## APPLICATIONS

- UV-cured systems
- Clear systems
- Pigmented systems
- White-pigmented systems
- Low-yellowing applications
- Wood coatings
- Varnishes

See page 64 for Global Inventory Status.

Formulated Photoinitiator Products /

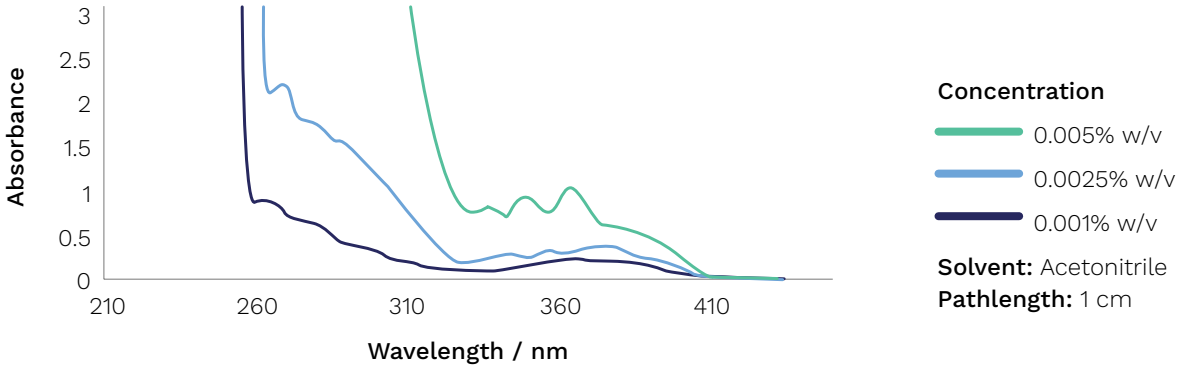
# SPEEDCURE 4265

**Chemical Name:** A blend of SPEEDCURE TPO and SPEEDCURE 73
**CAS Number:** 7473-98-5, 75980-60-8
**EC Number:** 231-272-0, 278-355-8

## GENERAL INFORMATION

SPEEDCURE 4265 is a liquid formulated blend of photoinitiators, with absorption maxima at 240, 273, and 380 nm. SPEEDCURE 4265 provides balanced curing in a broad range of applications when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Yellow liquid |
| **Water Content (Karl Fischer):** | ≤ 0.5% w/w |
| **Gardner Colour (Neat):** | ≤ 6.0 |

## APPLICATIONS

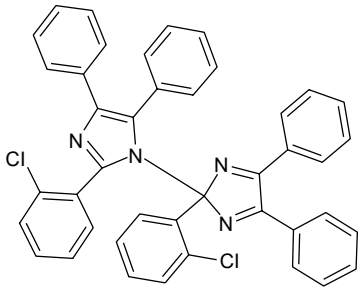
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Water-based systems
- 3D printing
- Adhesives
- Composites

See page 64 for Global Inventory Status.

Specialty Photoinitiator Products /

# SPEEDCURE BCIM

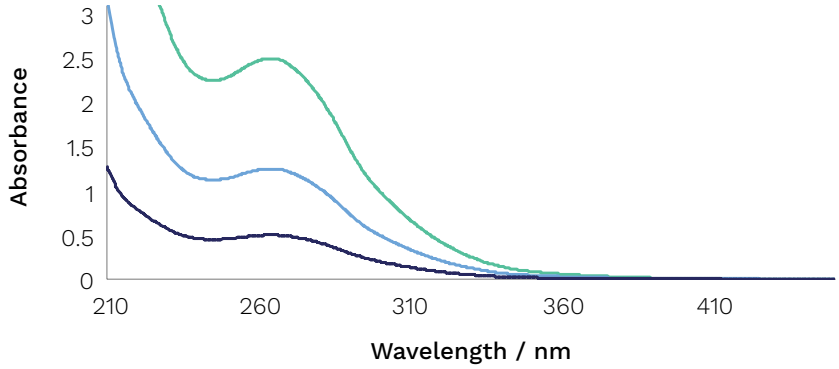
**Chemical Name:** 2-(2-chlorophenyl)-1-[2-(2-chlorophenyl)-4,5-diphenyl -2H-imidazole-2-yl]-4,5-diphenyl-1H-imidazole
**CAS Number:** 7189-82-4
**EC Number:** 230-555-6
**Molecular Weight:** 659.6




## GENERAL INFORMATION

SPEEDCURE BCIM is a photoinitiator of the hexaaryl bisimidazole (HABI) family, with an absorption maximum at 264 nm. SPEEDCURE BCIM produces highly reactive species when used at 0.1–5 wt% and combined with appropriate co-initiators such as LCV or thiols in UV- and LED-curable formulations.

## UV SPECTRUM




**Concentration**
0.005% w/v
0.0025% w/v
0.001% w/v

**Solvent:** Methanol
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Yellow solid |
| **Purity (By HPLC Area %):** | ≥ 99.0% |
| **Melting Point Range:** | ≥ 200.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 0.3% |

## APPLICATIONS

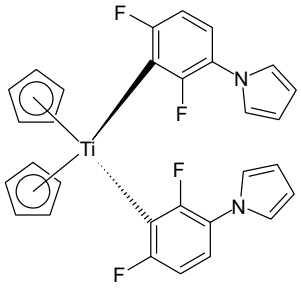
- Electronics
- Pigmented systems
- LED curing
- Adhesives

See page 64 for Global Inventory Status.

Specialty Photoinitiator Products /

# SPEEDCURE VLT

**Chemical Name:** Bis(η5-cyclopentadienyl)-bis(2,6-difluoro-3-[1-pyrrol-1-yl]-phenyl)titanium
**CAS Number:** 125051-32-3
**EC Number:** 412-000-1
**Molecular Weight:** 534.4

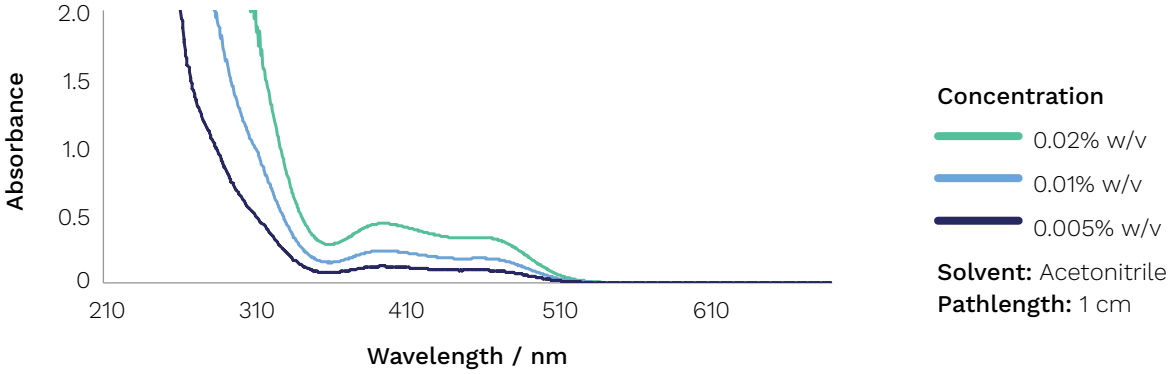



## GENERAL INFORMATION

SPEEDCURE VLT is a highly reactive photoinitiator based on fluorinated diaryl-bis-cyclopentadienyl titanium complex for radical polymerization of unsaturated resins upon exposure to visible light (daylight) or UV light. It is especially suited for the curing of photopolymers for imaging, specialty adhesive, and information storage applications.

SPEEDCURE VLT also acts as an effective sensitiser for diaryliodonium-type cationic photoinitiators and can therefore be used to promote cure of cationic formulations with visible light. SPEEDCURE VLT can be described as photobleaching and can be used to produce very thick coatings. Best results are obtained when oxygen is excluded from the resin system during curing.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Yellow to orange solid |
| **Assay (By HPLC Area %):** | ≥ 98.0% |
| **Melting Point Range (Temp ramp 1°C min):** | 165.0–170.0°C |
| **Loss on Drying (% w/w, 60°C, 3 hours, 50–100 mbar):** | ≤ 1.0% |
| **Clarity of Solution:** | Clear |

## APPLICATIONS

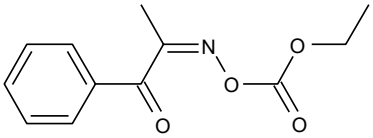
- Adhesives
- Electronics
- 3D printing
- Composites
- Pigmented systems
- Black-pigmented systems
- LED curing

See page 64 for Global Inventory Status.

Specialty Photoinitiator Products /

# SPEEDCURE PDO

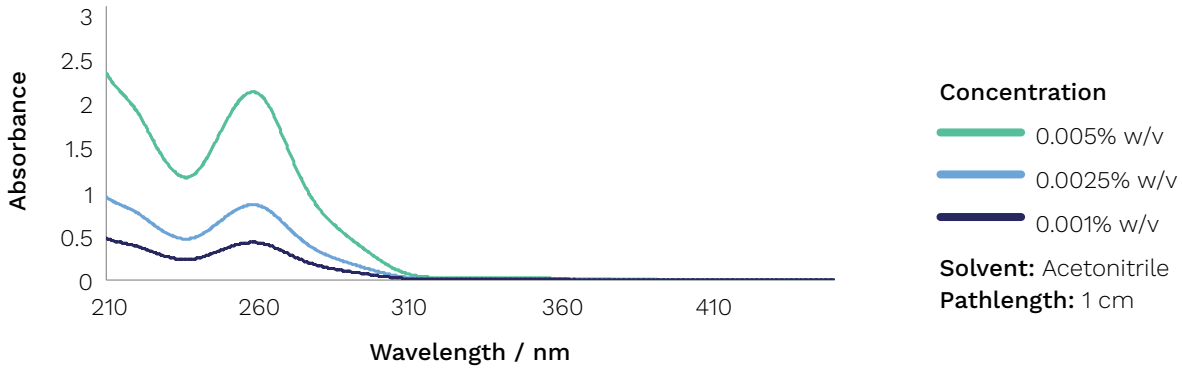
**Chemical Name:** 1-phenyl-1,2-propanedione-2-(O-ethoxycarbonyl) oxime
**CAS Number:** 65894-76-0
**EC Number:** 265-967-5
**Molecular Weight:** 235.3




## GENERAL INFORMATION

SPEEDCURE PDO is a Norrish Type I photoinitiator from the oxime ester family, with an absorption maximum at 259 nm. SPEEDCURE PDO provides high reactivity, low yellowing, and low volatiles when used at 0.5–5 wt% in UV formulations for electronics applications.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to pale-cream powder |
| **Purity (By NMR):** | ≥ 96.0% |
| **Melting Point Range:** | 58.0–61.0°C |
| **Water Content (Karl Fischer):** | ≤ 0.5% w/w |
| **Chloride Content (Titration):** | ≤ 5.0 ppm |
| **Sulphated Ash:** | ≤ 0.2% |
| **Sodium Content (ICP-OES):** | ≤ 5.0 ppm |
| **Calcium Content (ICP-OES):** | ≤ 1.0 ppm |
| **Potassium Content (ICP-OES):** | ≤ 1.0 ppm |
| **Iron Content (ICP-OES):** | ≤ 1.0 ppm |
| **Copper Content (ICP-OES):** | ≤ 1.0 ppm |

## APPLICATIONS

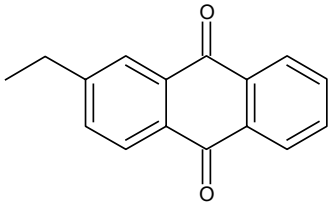
- Electronics
- LED curing
- Pigmented systems
- Adhesives

See page 64 for Global Inventory Status.

Specialty Photoinitiator Products /

# SPEEDCURE EAQ

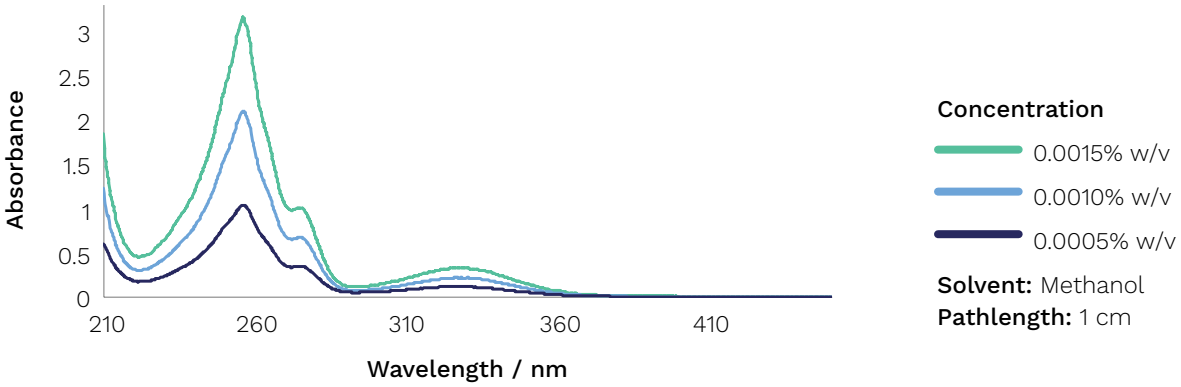
**Chemical Name:** 2-ethyl anthraquinone
**CAS Number:** 84-51-5
**EC Number:** 201-535-4
**Molecular Weight:** 236.3




## GENERAL INFORMATION

SPEEDCURE EAQ is a Norrish Type II photoinitiator of the anthraquinone family, with absorption maxima at 256 and 327 nm. SPEEDCURE EAQ provides long-wavelength sensitisation of appropriate photoinitiators and depth cure when used at 0.1–5 wt% in UV- and LED-curable formulations.

## UV SPECTRUM




## PHYSICAL PROPERTIES

**Appearance:** Pale-yellow powder
**Purity (By GC Area %):** ≥ 99.0%
**Melting Point Range:** 107.0–110.0°C

## APPLICATIONS

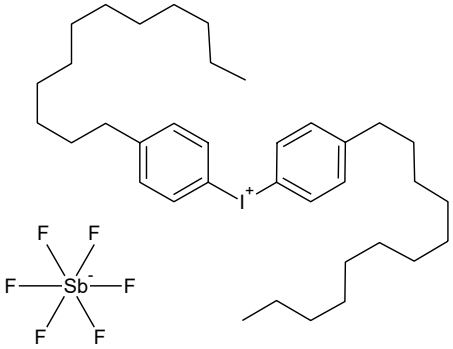
- Pigmented systems
- LED curing
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Iodonium Salts /

## SPEEDCURE 937

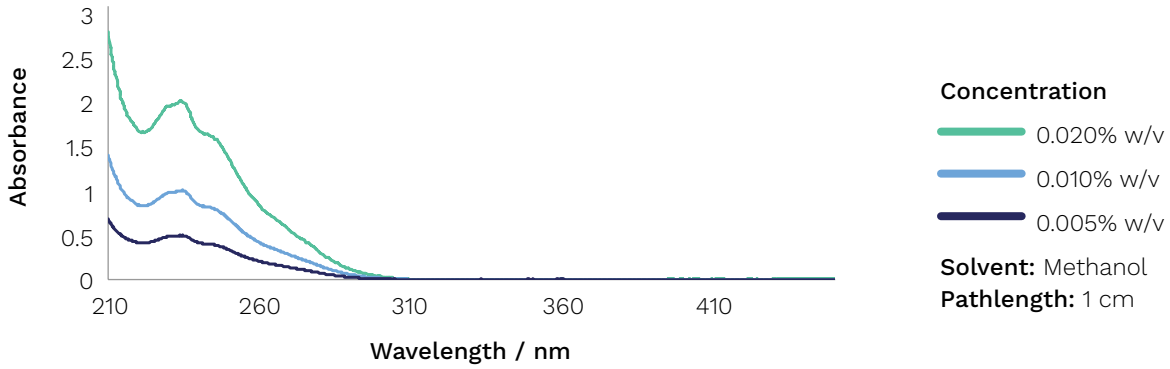
**Chemical Name:** A solution of bis(4-dodecylphenyl)iodonium hexafluoroantimonate in oxirane, mono[(C12-14-alkyloxy)methyl] derivs
**CAS Number:** 68609-97-2, 71786-70-4
**EC Number:** 271-846-8, 404-420-9




### GENERAL INFORMATION

SPEEDCURE 937 is cationic photoinitiator of the iodonium hexafluoroantimonate family, with an absorption maximum at 230 nm. SPEEDCURE 937 provides high reactivity and high solubility in cationic systems when used at 0.5–5 wt% in UV-curable formulations and LED-curable formulations when sensitised with thioxanthones.

### UV SPECTRUM




### PHYSICAL PROPERTIES

**Appearance:** Pale-yellow transparent liquid
**Solids Content (100% – Epoxide Content):** ≥ 45.0% w/w
**Water Content (Karl Fischer):** ≤ 1.0% w/w

### APPLICATIONS

Used in cationic curing of:

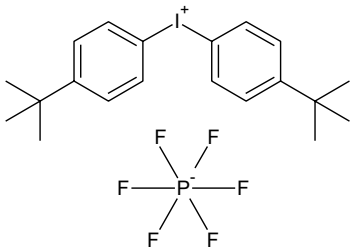
- Clear coatings
- Metal coatings
- Glass coatings
- Electronics
- White-pigmented systems
- Pigmented systems
- Adhesives
- LED curing

See page 64 for Global Inventory Status.

Iodonium Salts /

# SPEEDCURE 938

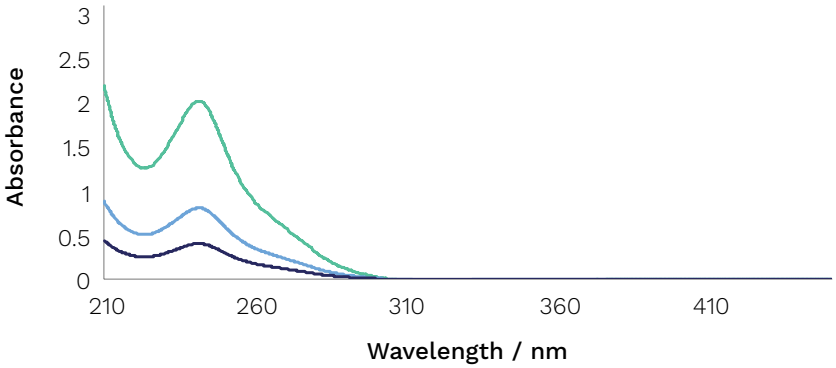
**Chemical Name:** Bis-(4-t-butylphenyl)-iodonium hexafluorophosphate
**CAS Number:** 61358-25-6
**EC Number:** 620-341-4
**Molecular Weight:** 538.3




## GENERAL INFORMATION

SPEEDCURE 938 is cationic photoinitiator of the iodonium hexafluorophosphate family, with absorption an maximum at 241nm. SPEEDCURE 938 provides high reactivity and solubility in cationic systems when used at 0.5–5 wt% in UV-curable formulations and LED-curable formulations when sensitised with thioxanthones.

## UV SPECTRUM




## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to off-white crystals |
| **Assay (By HPLC Area %):** | ≥ 98.0% |
| **Loss on Drying (%w/w, 60°C, 3 hours under vacuum):** | ≤ 1.0% w/w |

## APPLICATIONS

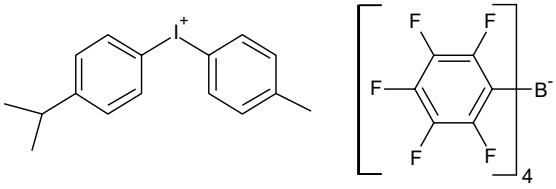
- Clear coatings
- Pigmented systems
- LED curing
- Electronics
- Adhesives
- 3D printing

See page 64 for Global Inventory Status.

Iodonium Salts /

# SPEEDCURE 939

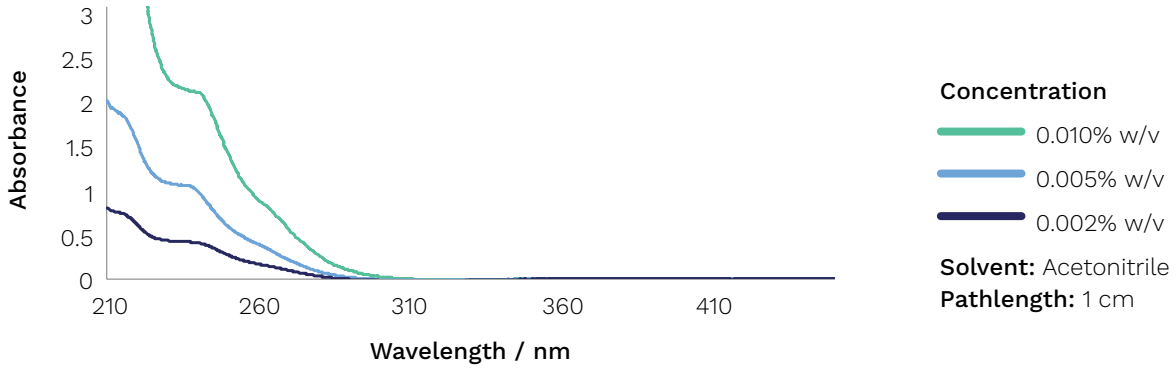
**Chemical Name:** 4-isopropyl-4'-methyldiphenyliodonium tetrakis(pentafluorophenyl)borate
**CAS Number:** 178233-72-2
**EC Number:** 422-969-3
**Molecular Weight:** 1016.3




## GENERAL INFORMATION

SPEEDCURE 939 is cationic photoinitiator of the iodonium borate family with an absorption maximum at 258 nm. SPEEDCURE 939 provides high reactivity and solubility in cationic systems when used at 0.5–5 wt% in UV-curable formulations and LED-curable formulations when sensitised with thioxanthones.

## UV SPECTRUM




## PHYSICAL PROPERTIES

**Appearance:** White to off-white solid
**Purity (By HPLC Area %):** ≥ 99.0%
**Water Content (Karl Fischer):** ≤ 0.5% w/w

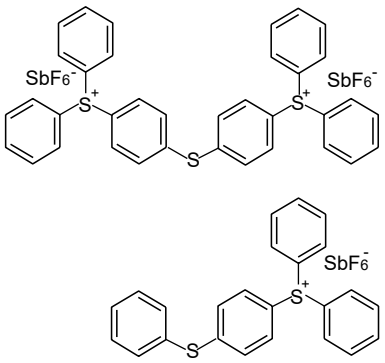
## APPLICATIONS

- Clear coatings
- Pigmented systems
- LED curing
- Electronics
- Adhesives

See page 64 for Global Inventory Status.

Sulfonium Salts /

## SPEEDCURE 976



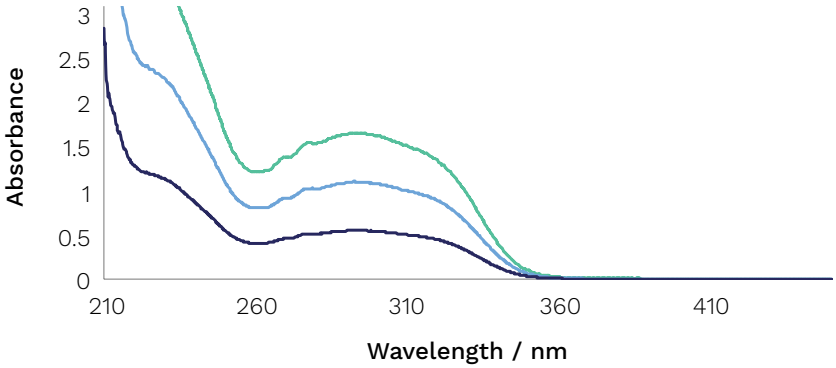

**Chemical Name:** (sulfanediyldibenzene-4,1-diyl) bis(diphenylsulfonium) bis(hexafluoroantimonate) in propylene carbonate

**CAS Number:** 108-32-7, 89452-37-9

### GENERAL INFORMATION

SPEEDCURE 976 is a 50% active liquid cationic photoinitiator of the sulfonium hexafluoroantimonate family, with absorption maxima at 230 and 295 nm. SPEEDCURE 976 provides high reactivity in cationic systems when used at 0.5–5 wt% in UV formulations.

### UV SPECTRUM




**Concentration**

- 0.015% w/v
- 0.010% w/v
- 0.005% w/v

**Solvent:** Acetonitrile
**Pathlength:** 1 cm

### PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Yellow liquid |
| **Active Content (100% solvent, area % HPLC):** | ≥ 50.0% |
| **Water Content (Karl Fischer):** | ≤ 1.0% w/w |
| **Gardner Colour:** | ≤ 4.0 |

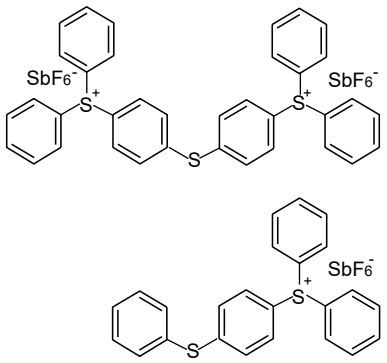
### APPLICATIONS

- Clear coatings
- Metal coatings
- Glass coatings
- Electronics
- White-pigmented systems
- Pigmented systems
- Adhesives

See page 64 for Global Inventory Status.

Sulfonium Salts /

# SPEEDCURE 976S



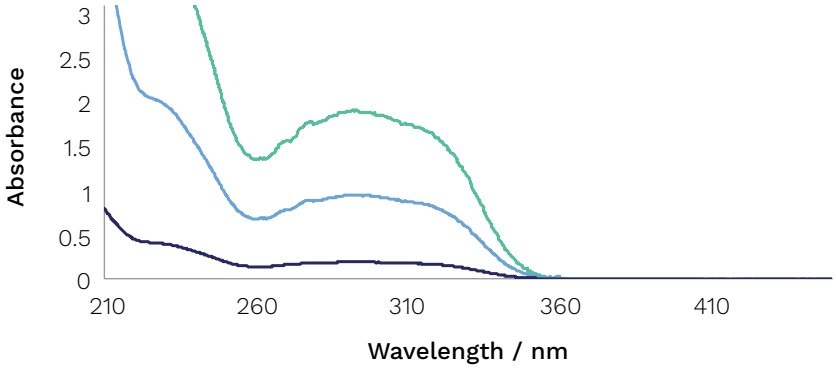

**Chemical Name:** (sulfanediyldibenzene-4,1-diyl) bis(diphenylsulfonium) bis(hexafluoroantimonate)

**CAS Number:** 89452-37-9

## GENERAL INFORMATION

SPEEDCURE 976s is cationic photoinitiator of the sulfonium hexafluoroantimonate family, with absorption maxima at 230 and 295 nm. SPEEDCURE 976s provides high reactivity in cationic systems when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




**Concentration**

- 0.010% w/v
- 0.005% w/v
- 0.001% w/v

**Solvent:** Acetonitrile
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | White to off-white solid |
| **Active Content (HPLC):** | ≥ 99.0% area |
| **Loss on Drying (60°C, 3 hours, 50–100 mbar):** | ≤ 1.0% w/w |

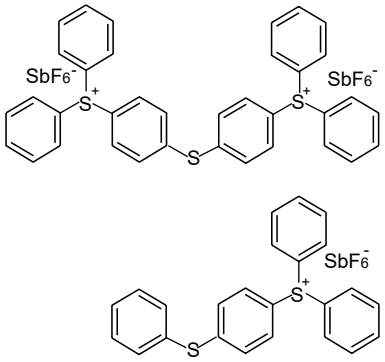
## APPLICATIONS

- Clear coatings
- Pigmented systems
- White-pigmented systems
- Electronics
- Metal coatings
- Glass coatings
- Adhesives

See page 64 for Global Inventory Status.

Sulfonium Salts /

## SPEEDCURE 976D

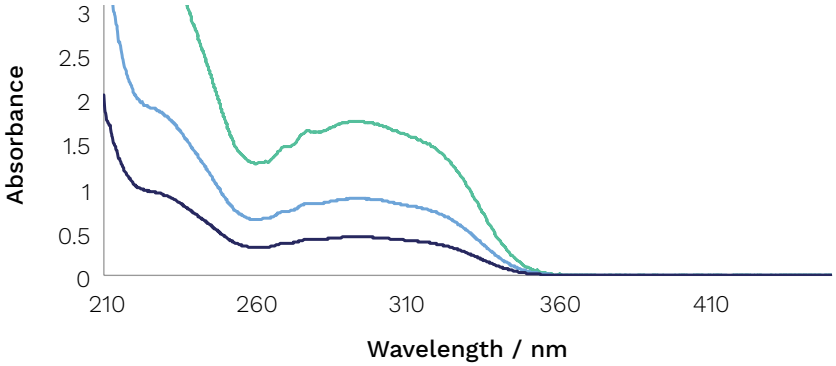



**Chemical Name:** (sulfanediyldibenzene-4,1-diyl) bis(diphenylsulfonium) bis(hexafluoroantimonate) in a reactive solvent **CAS Number:** 2425-79-8, 89452-37-9
**EC Number:** 219-371-7, 680-222-8

### GENERAL INFORMATION

SPEEDCURE 976D is liquid cationic photoinitiator of the sulfonium hexafluoroantimonate family in a reactive diluent. With absorption maxima at 230 and 295 nm, SPEEDCURE 976D provides high reactivity in cationic systems when used at 0.5–5 wt% in UV formulations.

### UV SPECTRUM




**Concentration**
0.020% w/v
0.010% w/v
0.005% w/v

**Solvent:** Acetonitrile
**Pathlength:** 1 cm

### PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale transparent liquid |
| **Solids Content (100% solvent; GC Area %):** | ≥ 35.0% |
| **Water Content (Karl Fischer):** | ≤ 1.0% w/w |

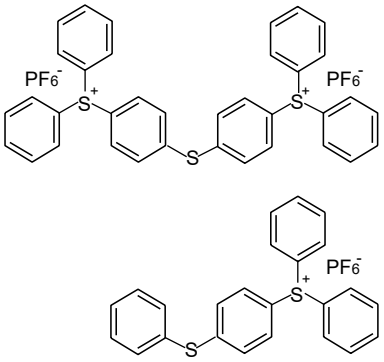
### APPLICATIONS

- Clear coatings
- Pigmented systems
- White-pigmented systems
- Electronics
- Metal coatings
- Glass coatings
- Adhesives

See page 64 for Global Inventory Status.

Sulfonium Salts /

# SPEEDCURE 992

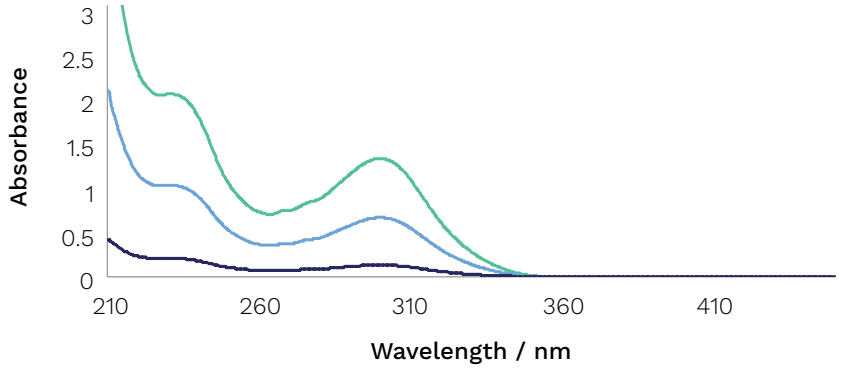



**Chemical Name:** (4-{[4-(diphenylsulfanylium)phenyl] sulfanyl}phenyl)diphenylsulfonium bishexafluorophosphate in propylene carbonate
**CAS Number:** 74227-35-3, 108-32-7
**EC Number:** 639-675-7, 203-572-1

## GENERAL INFORMATION

SPEEDCURE 992 is a 40% active liquid cationic photoinitiator of the sulfonium hexafluorophosphate family, with absorption maxima at 230 and 295 nm. SPEEDCURE 992 provides high reactivity in cationic systems when used at 0.5–5 wt% in UV-curable formulations.

## UV SPECTRUM




**Concentration**
0.010% w/v
0.005% w/v
0.001% w/v

**Solvent:** Acetonitrile
**Pathlength:** 1 cm

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Clear yellow to amber liquid |
| **Active Content (100% solvent, area% HPLC):** | ≥ 40.0% |
| **Water Content (Karl Fischer):** | ≤ 1.0% w/w |
| **Gardner Colour:** | ≤ 4.0 |

## APPLICATIONS

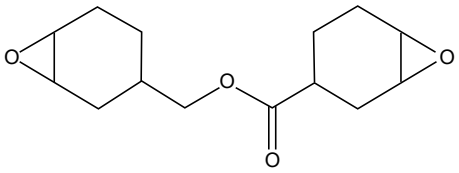
- Clear coatings
- Metal coatings
- Glass coatings
- Electronics
- White-pigmented systems
- Pigmented systems
- Adhesives

See page 64 for Global Inventory Status.

Cycloaliphatic Epoxides /

# UVICURE S105 & S105E

**Chemical Name:** 7-oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate
**CAS Number:** 2386-87-0
**EC Number:** 219-207-4
**Molecular Weight:** 252.3



## GENERAL INFORMATION

UVICURE S105 is a low-viscosity difunctional cycloaliphatic epoxide resin which gives clear, hard, glossy coatings when polymerised with onium salt photoinitiators.

UVICURE S105E is a high-purity, low-viscosity difunctional cycloaliphatic epoxide resin which gives clear, hard, glossy coatings when polymerised with onium salt photoinitiators.

## PHYSICAL PROPERTIES S105

| | |
|---|---|
| **Appearance:** | Colourless to pale-yellow clear liquid |
| **Viscosity (LV, Sp31, 60 rpm @ 25°C):** | 200.0–350.0 mPa.s |
| **Water Content (Karl Fischer):** | ≤ 0.05 % w/w |
| **Epoxide Equivalent:** | 126.0–145.0 g/mol |
| **APHA (Neat):** | ≤ 50.0 |

## APPLICATIONS

- LED curing
- Metal coatings
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Glass coatings

## PHYSICAL PROPERTIES S105E

| | |
|---|---|
| **Appearance:** | Colourless to pale-yellow clear liquid |
| **Purity (GC):** | ≥ 97.0 % w/w |
| **Viscosity (LV, Sp31, 60 rpm @ 25°C):** | 220.0–350.0 mPa.s |
| **Water Content (Karl Fischer):** | ≤ 0.05 % w/w |
| **Epoxide Equivalent:** | 126.0–135.0 g/mol |
| **APHA (Neat):** | < 50.0 |
| **Total Chloride (Combustion IC):** | ≤ 100.0 ppm |

## APPLICATIONS

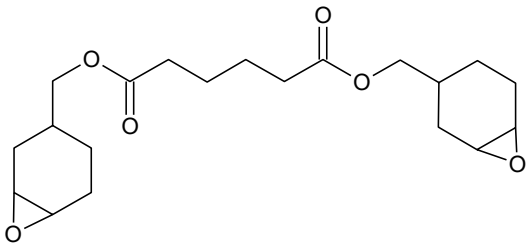
- LED curing
- Metal coatings
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Glass coatings

See page 64 for Global Inventory Status.

Cycloaliphatic Epoxides /

# UVICURE S128

**Chemical Name:** Bis((3,4-epoxycyclohexyl)methyl) adipate
**CAS Number:** 3130-19-6
**EC Number:** 221-518-5
**Molecular Weight:** 366.5



## GENERAL INFORMATION

UVICURE S128 is an adipate-based difunctional cycloaliphatic epoxide resin which can be used alone or as an additive in UVICURE S105 based formulations to increase the flexibility of a cured coating when polymerised with onium salt photoinitiators.

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow to yellow clear liquid |
| **Viscosity (LV, Sp31, 30 rpm @ 25°C):** | 500.0–650.0 mPa.s |
| **Water Content (Karl Fischer):** | ≤ 0.15 % w/w |
| **Epoxide Equivalent:** | 190.0–210.0 g/mol |
| **APHA:** | ≤ 150.0 |

## APPLICATIONS

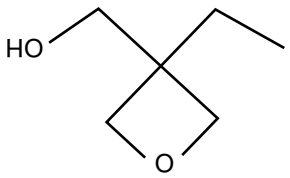
- LED curing
- Metal coatings
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Glass coatings

See page 64 for Global Inventory Status.

Oxetanes /

# UVICURE S130

| | |
|---|---|
| **Chemical Name:** | 3-ethyloxetane-3-methanol |
| **CAS Number:** | 3047-32-3 |
| **EC Number:** | 221-254-0 |
| **Molecular Weight:** | 116.2 |




## GENERAL INFORMATION

UVICURE S130 is an alcohol-functional mono oxetane. It is used as a reactive diluent in cationic formulations and will increase curing speed and adhesion when polymerised with onium salt photoinitiators.

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Clear liquid |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Water Content (Karl Fischer):** | ≤ 0.5% w/w |

## APPLICATIONS

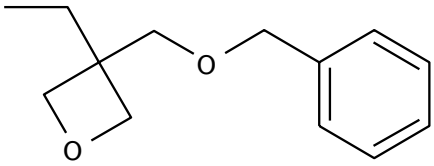
- LED curing
- Metal coatings
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Glass coatings

See page 64 for Global Inventory Status.

Oxetanes /

# UVICURE S140

**Chemical Name:** 3-ethyl-3-[(phenylmethoxy)methyl]-oxetane
**CAS Number:** 18933-99-8
**Molecular Weight:** 206.3




## GENERAL INFORMATION

UVICURE S140 is a low-viscosity monofunctional oxetane suitable for cationic formulations. It will reduce the viscosity of resin formulations and give added flexibility to a cured coating when polymerised with onium salt photoinitiators.

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow clear liquid |
| **Purity (By GC Area %):** | ≥ 95.0% |
| **Viscosity (LV, Sp31, 60 rpm @ 25°C):** | 1.0–100.0 mPa.s |
| **Water Content (Karl Fischer):** | ≤ 0.1% w/w |

## APPLICATIONS

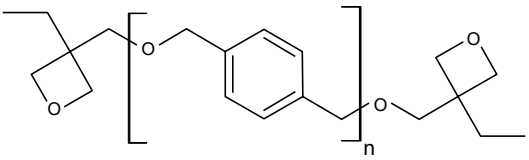
- LED curing
- Metal coatings
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Glass coatings

See page 64 for Global Inventory Status.

Oxetanes /

# UVICURE S150

**Chemical Name:** 1,4-bis[(3-ethyl-3-oxetanylmethoxy)methyl]benzene
**CAS Number:** 142627-97-2
**Molecular Weight:** 334, n = 1



n=1, 2, 3

## GENERAL INFORMATION

UVICURE S150 is a difunctional aromatic oxetane which can be used as an additive in cationic formulations to increase hardness, chemical resistance, and thermal resistance when polymerised with onium salt photoinitiators.

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Pale-yellow clear liquid |
| **Purity (By GC Area %):** | ≥ 90.0% |
| **Water Content (Karl Fischer):** | ≤ 0.1% w/w |
| **Epoxide Equivalent:** | 150.0–220.0 g/mol |

## APPLICATIONS

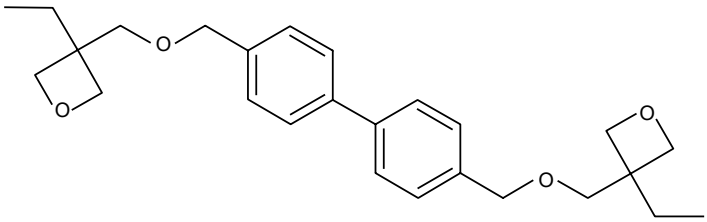
- LED curing
- Metal coatings
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Glass coatings

See page 64 for Global Inventory Status.

Oxetanes /

# UVICURE S160

**Chemical Name:** 4,4-Bis[(3-ethyl-3-oxetanyl)methoxymethyl]biphenyl
**CAS Number:** 358365-48-7
**Molecular Weight:** 410.6



## GENERAL INFORMATION

UVICURE S160 is an aromatic difunctional oxetane which can be used in cationic formulations to give cured films with high chemical resistance, mechanical strength, and minimised shrinkage when polymerised with onium salt photoinitiators.

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance (@ 50°C):** | Colourless to pale-yellow clear liquid |
| **Purity (By GC Area %):** | ≥ 90.0% |
| **Viscosity (LV, Sp31, 60 rpm @ 50°C):** | 240.0–300.0 mPa.s |
| **Water Content (Karl Fischer):** | ≤ 0.1 % w/w |
| **Epoxide Equivalent:** | 180.0–230.0 g/mol |

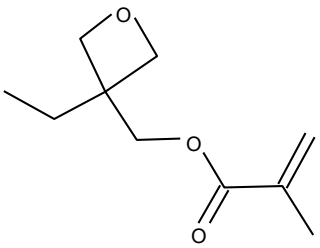
## APPLICATIONS

- LED curing
- Metal coatings
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Glass coatings

See page 64 for Global Inventory Status.

Oxetanes /

# UVICURE S170



**Chemical Name:** 3-ethyl-3-(methacryloyloxy)methyloxetane
**CAS Number:** 37674-57-0
**EC Number:** 680-615-4
**Molecular Weight:** 184.2

## GENERAL INFORMATION

UVICURE S170 is a low-viscosity oxetane-methacrylate hybrid resin which can be used in epoxide/acrylate hybrid curing systems to give superior properties to either system used alone when polymerised with onium salt photoinitiators.

## PHYSICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | Colourless to pale-yellow clear liquid |
| **Purity (By GC Area %):** | ≥ 98.0% |
| **Viscosity (LV, Sp31, 60 rpm @ 25°C):** | 1.0–100.0 mPa.s |
| **Water Content (Karl Fischer):** | ≤ 0.15 % w/w |
| **Epoxide Equivalent:** | 170.0–220.0 g/mol |
| **Stabiliser (MEHQ):** | 150.0–250.0 ppm |

## APPLICATIONS

- LED curing
- Metal coatings
- 3D printing
- Adhesives
- Composites
- Clear coatings
- Pigmented systems
- White-pigmented systems
- Black-pigmented systems
- Glass coatings

See page 64 for Global Inventory Status.

# GLOBAL INVENTORY STATUS

| Product | Australia Inventory (AICS) | Canada Inventory (DSL/NDSL) | China Inventory (IECSC) | EU (REACH) | EC Inventory |
|---|---|---|---|---|---|
| **SPEEDCURE 73** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE 84** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE 2959** | Listed | DSL | Listed | Registered | ELINCS |
| **SPEEDCURE XFs** | Not listed | Listed | Listed | Components registered | Components listed |
| **SPEEDCURE XFs01** | Not listed | NDSL | Listed | Registered | ELINCS |
| **SPEEDCURE BKL** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE 97** | Listed | DSL | Listed | Registered | ELINCS |
| **SPEEDCURE BDMB** | Listed | DSL | Listed | Registered | ELINCS |
| **SPEEDCURE TPO** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE TPO-L** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE BPO** | Listed | DSL | Listed | Registered | ELINCS |
| **SPEEDCURE XKm** | Not listed | Not listed | Not listed | Registered | Not listed |
| **SPEEDCURE BP** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE MBP** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE MBB** | Listed | NDSL | Listed | Registered | EINECS |
| **SPEEDCURE 210** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE 500** | Listed | DSL | Listed | Components registered | Components listed |
| **SPEEDCURE 510** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE 520** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE EMK** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE BMS** | Listed | NDSL | Listed | Registered | EINECS |
| **SPEEDCURE PBZ** | Listed | NDSL | Listed | Not registered | EINECS |
| **SPEEDCURE ITX** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE 2–ITX** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE CPTX** | Not listed | NDSL | Not listed | Registered | ELINCS |
| **SPEEDCURE DETX** | Listed | NDSL | Listed | Registered | EINECS |
| **SPEEDCURE MBF** | Listed | NDSL | Listed | Registered | EINECS |
| **SPEEDCURE EDB** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE EHA** | Listed | DSL | Listed | Registered | EINECS |
| **SPEEDCURE BEDB** | Not listed | NDSL | Listed | Not registered | EINECS |
| **SPEEDCURE DMB** | Listed | NDSL | Not listed | Not registered | EINECS |

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| Japan Inventory (ENCS) | Korea Inventory (ECL) | New Zealand Inventory of Chemicals (NZIoC) | Philippines Inventory (PICCS) | Taiwan Inventory (TSCI) | USA Inventory (Active TSCA) |
|---|---|---|---|---|---|
| Listed | Listed | Listed | Listed | Listed | Listed |
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| Not listed | Not listed | Not listed | Not listed | Not listed | TSCA compliant |
| Listed | Listed | Listed | Listed | Listed | Listed |
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| Not listed | Not listed | Listed | Listed | Listed | Listed |
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# GLOBAL INVENTORY STATUS

| Product | Australia Inventory (AICS) | Canada Inventory (DSL/NDSL) | China Inventory (IECSC) | EU (REACH) | EC Inventory |
|---|---|---|---|---|---|
| **SPEEDCURE 7005** | Not listed | Not listed | Not listed | Polymer – monomers registered | Not listed |
| **SPEEDCURE 7010** | Not listed | Not listed | Not listed | Polymer – monomers registered | Not listed |
| **SPEEDCURE 7010–L** | Not listed | Not listed | Not listed | Polymer – monomers registered | Not listed |
| **SPEEDCURE 7040** | Not listed | Not listed | Not listed | Polymer – monomers registered | Not listed |
| **SPEEDCURE XF LM01** | Not listed | Not listed | Not listed | REACH compliant | Not listed |
| **SPEEDCURE KEM** | Not all components listed | Not all components listed | Not all components listed | REACH compliant | Components listed |
| **SPEEDCURE TEM** | Not all components listed | Not all components listed | Not all components listed | REACH compliant | Components listed |
| **SPEEDCURE 2022** | Listed | DSL | Listed | Components registered | Components listed |
| **SPEEDCURE 2100** | Listed | DSL | Listed | Components registered | Components listed |
| **SPEEDCURE 4265** | Listed | DSL | Listed | Components registered | Components listed |
| **SPEEDCURE BCIM** | Listed | NDSL | Listed | Registered | EINECS |
| **SPEEDCURE VLT** | Not listed | NDSL | Listed | Not registered | ELINCS |
| **SPEEDCURE PDO** | Listed | NDSL | Listed | Registered | EINECS |
| **SPEEDCURE EAQ** | Listed | DSL | Listed | Not registered | EINECS |
| **SPEEDCURE 937** | Not listed | Listed | Listed | Not registered | EINECS |
| **SPEEDCURE 938** | Not listed | Not listed | Not listed | Registered | Not listed |
| **SPEEDCURE 939** | Not listed | NDSL | Listed | Not registered | ELINCS |
| **SPEEDCURE 976** | Listed | Listed | Listed | Components registered | Not listed |
| **SPEEDCURE 976s** | Listed | NDSL | Listed | Registered | Not listed |
| **SPEEDCURE 976D** | Listed | Listed | Listed | Listed | Not listed |
| **SPEEDCURE 992** | Listed | Listed | Listed | Components registered | Not listed |
| **UVICURE S105**<br>**UVICURE S105E** | Listed | DSL | Listed | Registered | EINECS |
| **UVICURE S128** | Listed | DSL | Listed | Registered | EINECS |
| **UVICURE S130** | Listed | NDSL | Listed | Registered | EINECS |
| **UVICURE S140** | Not listed | Not listed | Not listed | Not registered | Not listed |
| **UVICURE S150** | Not listed | Not listed | Listed | Not registered | Not listed |
| **UVICURE S160** | Not listed | Not listed | Listed | Not registered | Not listed |
| **UVICURE S170** | Not listed | Not listed | Not listed | Not registered | Not listed |

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|---|---|---|---|---|---|
| Not listed | Not listed | Not listed | Not listed | Listed | TSCA compliant |
| Not listed | Not listed | Not listed | Not listed | Listed | TSCA compliant |
| Not listed | Not listed | Not listed | Not listed | Listed | TSCA compliant |
| Not listed | Not listed | Not listed | Not listed | Listed | TSCA compliant |
| Not listed | Not listed | Not listed | Not listed | Listed | TSCA compliant |
| Not all components listed | Not all components listed | Not all components listed | Not all components listed | Not all components listed | TSCA compliant |
| Not all components listed | Not all components listed | Not all components listed | Not all components listed | Not all components listed | TSCA compliant |
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