

Ciba[®] IRGACURE[®] 369

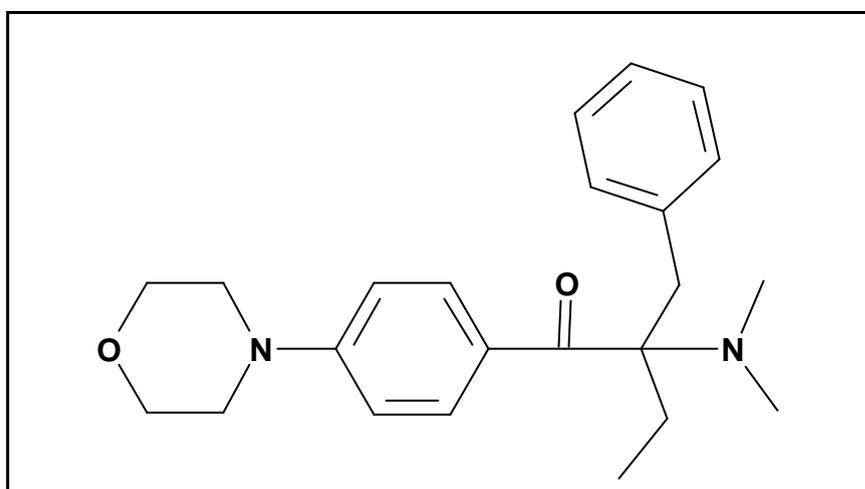
Photoinitiator

General

IRGACURE 369 is a highly efficient UV curing agent which is used to initiate the photopolymerisation of chemically prepolymers - e.g. acrylates - in combination with mono- or multifunctional monomers.

IRGACURE 369 is especially suitable for pigmented UV curable systems, photoresists and printing plates.

Chemical Structure

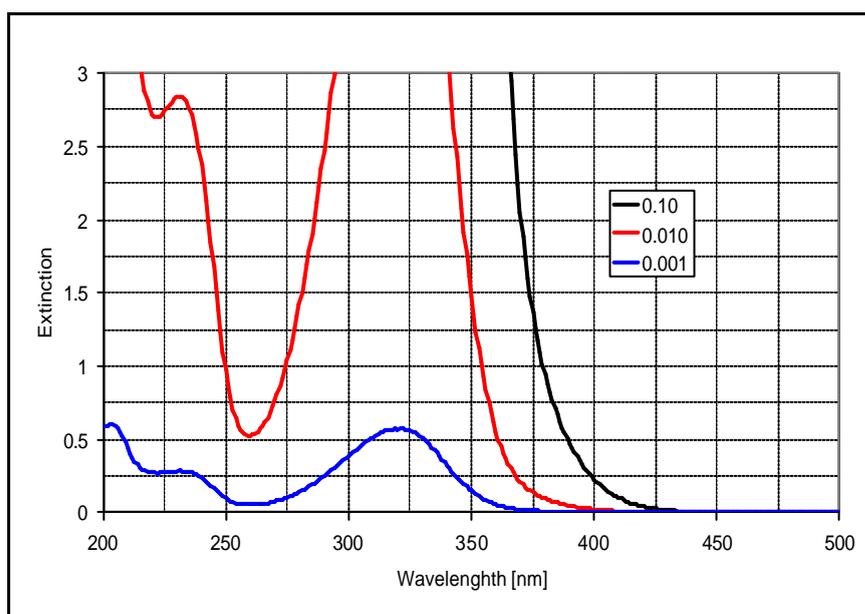


2-Benzyl-2-dimethylamino-1-(4-morpholinophenyl)-butanone-1

Molecular weight: 366.5

CAS No. 119313-12-1

Absorption Spectrum (% in Acetonitrile)





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Physical Properties (typical values)

<u>Appearance:</u>	slightly yellow powder
<u>Melting point:</u>	110-114°C
<u>Solubility at 20°C (g/100 g solution):</u>	
acetone	17
butyacetate	11
toluene	27
hexanedioldiacrylate (HDDA)	5

Applications

IRGACURE 369 may be used after adequate testing alone or in combination with suitable coinitiators, such as IRGACURE 184 and IRGACURE 651, for UV curable inks and varnishes for applications on paper, metal and plastic materials. Its high absorptivity makes it especially suitable for UV curable inks.

Applications in the graphic arts (e.g. offset and screen inks, printing plates, etc.) and in the electronics industry (e.g. photoresists, solder masks, etc.) may also be of interest.

The amount of IRGACURE 369 required for optimum performance should be determined in trials covering a concentration range.

Recommended concentration:

offset inks	2 – 4 % IRGACURE 369
screen inks	2 – 4 % IRGACURE 369 + 1 – 3 % IRGACURE 184
pigmented coatings	1 – 4 % IRGACURE 369
photopolymers for imaging applications	0.5 – 5 % IRGACURE 369

Safety and Handling

IRGACURE 369 should be handled in accordance with good industrial practice. Detailed information is provided in the Safety Data Sheet.

IRGACURE 369 is sensitive to visible light and any exposure to sunlight should be avoided. Opened packaging should be closed after use to protect the product against light.



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Trademark

IRGACURE is a registered trademark.

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