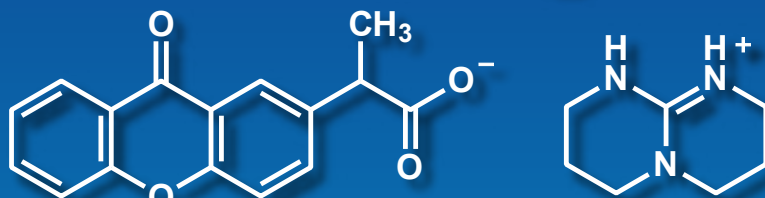


Photobase Generator (PBG) for Anionic UV Light Curing



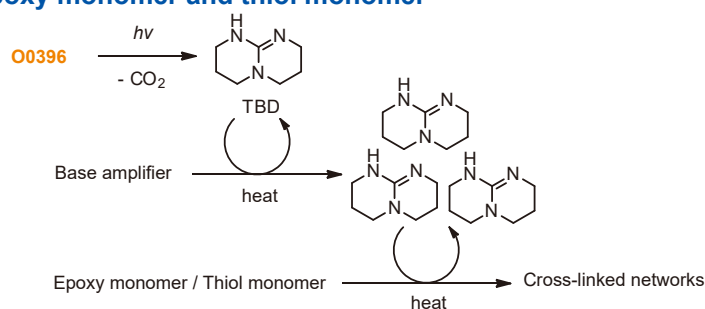
2-(9-Oxoxanthen-2-yl)propionic Acid 1,5,7-Triazabicyclo[4.4.0]dec-5-ene Salt
1g [O0396]

Advantages

- Highly efficient photodecarboxylation reaction (quantum yield: $\phi = ca. 0.64$) and free TBD generation proceeds through UV light irradiation (254 nm or 365 nm)
- TBD can multiply prolifically by use of O0396 and a base amplifier releasing TBD.

Application

Anionic UV light curing by using a reactive resin which is prepared from epoxy monomer and thiol monomer



Without base amplifier : a reactive resin cures through 365 nm light irradiation by addition of 10 mol% O0396 for monomer.

With base amplifier : a reactive resin cures through 365 nm light irradiation by addition of 3 mol% O0396 and 6 mol% base amplifier for monomer.

References K. Arimitsu, *Yuki Gosei Kagaku Kyokaiishi (J. Syn. Org. Chem., Jpn.)* **2012**, *70*, 508; K. Arimitsu, Tokyo University of Science, Jpn. Kokai Tokkyo Koho 2011 236416, **2011**; K. Arimitsu, Tokyo University of Science, Jpn. Kokai Tokkyo Koho 2012 237776, **2012**.

This product is commercialized under the instruction of Prof. Koji Arimitsu.

Related Products

Base-free Form Compound

2-(9-Oxoxanthen-2-yl)propionic Acid

1g [O0395]

Other Photobase Generators

Acetophenone O-Benzoyloxime

1g / 5g [A2502]

2-Nitrobenzyl Cyclohexylcarbamate

1g [N1052]

1,2-Bis(4-methoxyphenyl)-2-oxoethyl Cyclohexylcarbamate 200mg / 1g [B5085]

For further information please refer to our website at www.TCIchemicals.com.

TCI initiators



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