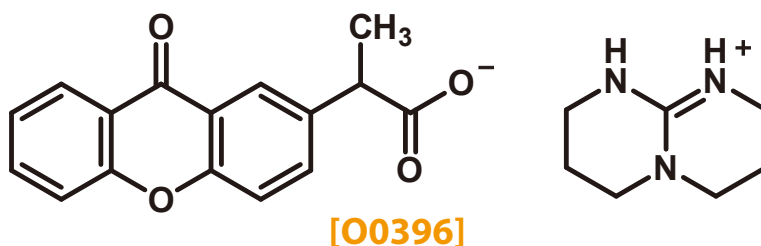


Photobase Generator (PBG) for Anionic UV Light Curing

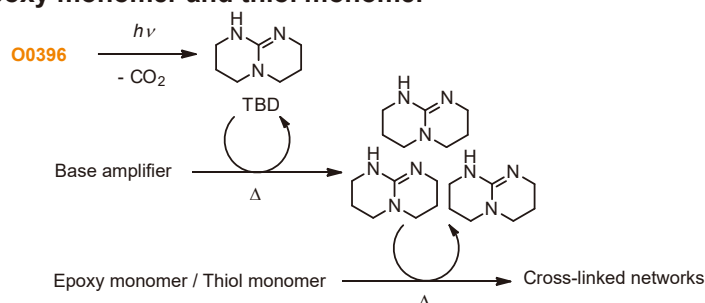


Advantages

- Highly efficient photodecarboxylation reaction (quantum yield: $\phi = \text{ca. } 0.64$) 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.

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**.

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

1g **[O0396]**

This product is commercialized under Professor Koji Arimitsu's supervision.

Base-free Form Product

2-(9-Oxoxanthene-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]**

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