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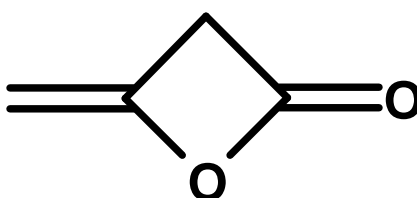
Product Specifications

Diketene

CAS 674-82-8

Syn: 4-Methylideneoxetan-2-one

Structure:



Mol. Formula
Source

$C_4H_4O_2$
Synthetic

Mol. Wt.

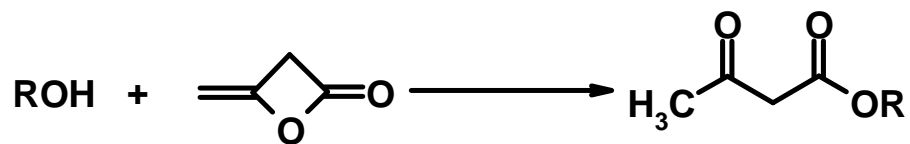
84.08

<i>Test</i>	<i>Specification</i>
Identity	IR
Appearance	Colorless liquid
Bp	69-70 °C / 100 mm Hg [Lit.]
Assay (glpc)	> 98 %
$d_{20}^{\circ C}$	1.09 g/mL [Lit.]
RI, $\eta_D^{20}^{\circ C}$	1.439 [Lit.]
Fp	34 °C

Application: Diketene is reactive intermediate used for the production of acetoacetate esters and amides as well as substituted 1-phenyl-3-methylpyrazolones (see below).

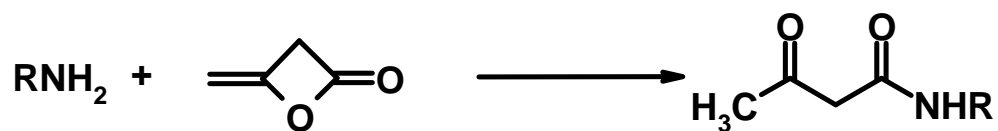
Availability: As this product is too unstable to transport, we offer it only for production of downstream products. If you have a production requirement(s) that could benefit from Diketene application, contact us.

Synthesis of Acetoacetates

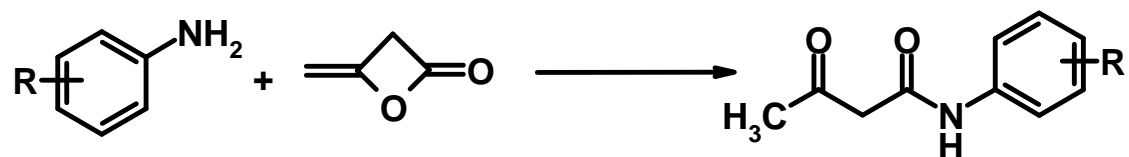


R = Me, Et, Iso-Butyl, tert-Butyl, etc.

Synthesis of Alkyl- and Arylamides

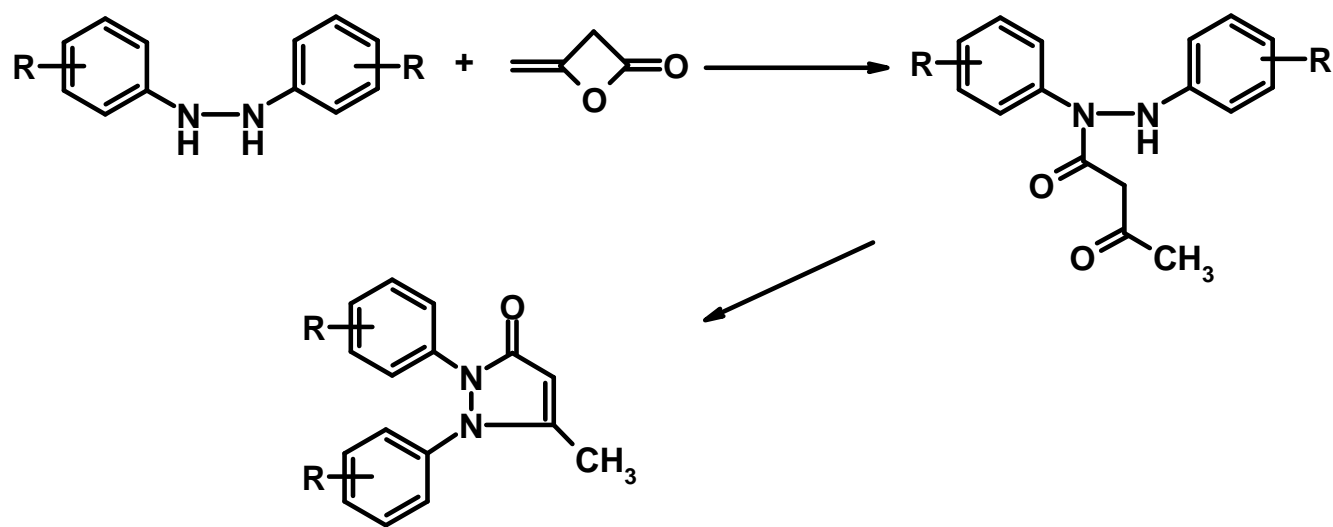


R = Me, Et, Iso-Butyl, tert-Butyl etc.



R = H, *o*-Me, *p*-Me, *m*-Me, *o*-Cl, *p*-Cl, *m*-Cl, *o*-OMe, *p*-OMe, *m*-OMe, etc.

Synthesis of substituted 1-phenyl-3-methylpyrazolones:



R = H, *o*-Me, *p*-Me, *m*-Me, *o*-Cl, *p*-Cl, *m*-Cl, *o*-OMe, *p*-OMe, *m*-OMe, etc.