>>**Entry Name: 2-Benzyl-3-oxobutanoic acid**
ENTRY UNDER REVIEW
Synonym(s): 2-Benzylacetoacetic acid. 2-Acetyl-3-phenylpropanoic acid

CAS Registry Number: 2382-58-3
$H_3CCOCH(COOH)CH_2Ph$

Molecular Formula: $C_{11}H_{12}O_3$
Molecular Weight: 192.214
Accurate Mass: 192.078645
Percentage Composition: C 68.74%; H 6.29%; O 24.97%

>>**Variant:** (±)-form

Molecular Formula: $C_{11}H_{12}O_3$
Molecular Weight: 192.214
Accurate Mass: 192.078645
Percentage Composition: C 68.74%; H 6.29%; O 24.97%
Physical Description: Oil with aromatic smell
Boiling Point: Bp_{13} 156-162°
Solubility: Spar. sol. H_2O
Other Data: Decarboxylates on warming

>>**Derivative:** Me ester

CAS Registry Number: 3666-82-8
Molecular Formula: $C_{12}H_{14}O_3$
Molecular Weight: 206.241
Accurate Mass: 206.094295
Percentage Composition: C 69.89%; H 6.84%; O 23.27%
Boiling Point: Bp_5 145°

>>**Derivative:** Et ester
Synonym(s): FEMA 2416

CAS Registry Number: 620-79-1

Molecular Formula: $C_{13}H_{16}O_3$
Molecular Weight: 220.268
Accurate Mass: 220.109945
Percentage Composition: C 70.89%; H 7.32%; O 21.79%
Boiling Point: Bp 276°
Solubility: Insol. H_2O, misc. EtOH, Et_2O
Density: d^{25} 1.061
Aldrich: W24160-1

References:

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Kabachnik, M.I. *et al.*, *Tetrahedron*, 1961, **12**, 76, *(ester)*
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