>>**Entry Name: Acetoacetanilide**
Synonym(s): 3-Oxo-*N*-phenylbutanamide, 9CI

CAS Registry Number: 102-01-2
$PhNHCOCH_2COCH_3$

Molecular Formula: $C_{10}H_{11}NO_2$
Molecular Weight: 177.202
Accurate Mass: 177.078979
Percentage Composition: C 67.78%; H 6.26%; N 7.90%; O 18.06%
Use/Importance: Coupling reagent for sulfa drugs (tlc sepn.)
Physical Description: Cryst. (petrol)
Melting Point: Mp 80° (86°)
Density: d^{20} 1.26
Hazard & Toxicity: Fl. p. 185/163° (oc). Weak allergen. LD_{50} (rat, orl) 5400 mg/kg

Aldrich: A873-2
Sigma: A1500

References:

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Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 363B, *(ir)*
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Hussein, S.M. *et al.*, *J. Het. Chem.*, 1988, **25**, 9, *(rev)*
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