>>**Entry Name: 1,1-Diphenyl-2-propanone,** 9Cl
Synonym(s): 1,1-Diphenylacetone. Benzhydryl methyl ketone. α-Acetodiphenylmethane

CAS Registry Number: 781-35-1
$Ph_2CHCOCH_3$

Molecular Formula: $C_{15}H_{14}O$
Molecular Weight: 210.275
Accurate Mass: 210.104465
Percentage Composition: C 85.68%; H 6.71%; O 7.61%
Physical Description: Dimorphic; stable form, spangles (EtOH)
Melting Point: Mp 46° (labile). Mp 62-63° (stable)
Boiling Point: Bp_2 142-144°

Aldrich: D20440-4
Fluka: 42685

>>**Derivative:** Oxime

CAS Registry Number: 6337-69-5
Molecular Formula: $C_{15}H_{15}NO$
Molecular Weight: 225.29
Accurate Mass: 225.115364
Percentage Composition: C 79.97%; H 6.71%; N 6.22%; O 7.10%
Melting Point: Mp 165°

>>**Derivative:** Phenylhydrazone

Physical Description: Needles (C_6H_6)
Melting Point: Mp 131°

>>**Derivative:** 2,4-Dinitrophenylhydrazone

Physical Description: Yellow needles
Melting Point: Mp 142.5-143°

>>**Derivative:** Semicarbazone

Melting Point: Mp 170°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 790A, *(nmr)*
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1C, *(ir)*
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1222B, *(ir)*
Org. Synth., Coll. Vol., 3, 1955, 343, *(synth)*
Cragoe, E.I. *et al.*, *J.O.C.*, 1958, **23**, 971
McKillop, A. *et al.*, *J.A.C.S.*, 1973, **95**, 3635
Haller, R. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1974, **307**, 116, *(pmr)*
Bunce, R.A. *et al.*, *Synth. Commun.*, 1990, **20**, 3007, *(synth)*