



>>Entry Name: 4,4-Diphenyl-2-butanone

CAS Registry Number: 5409-60-9

$\text{Ph}_2\text{CHCH}_2\text{COCH}_3$

Molecular Formula: $\text{C}_{16}\text{H}_{16}\text{O}$

Molecular Weight: 224.302

Accurate Mass: 224.120115

Percentage Composition: C 85.68%; H 7.19%; O 7.13%

Physical Description: Plates

Melting Point: Mp 47-48°

>>Derivative: Oxime

CAS Registry Number: 36317-57-4

Molecular Formula: $\text{C}_{16}\text{H}_{17}\text{NO}$

Molecular Weight: 239.316

Accurate Mass: 239.131014

Percentage Composition: C 80.30%; H 7.16%; N 5.85%; O 6.69%

Melting Point: Mp 92°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 5472-30-0

Physical Description: Red platelets (EtOH)

Melting Point: Mp 174-175°

References:

Parizzi, L., *Gazz. Chim. Ital.*, 1946, **76**, 44

Burckhalter, J.H. *et al.*, *J.A.C.S.*, 1951, **73**, 4830

House, H.O. *et al.*, *J.O.C.*, 1963, **28**, 348

Walborsky, H.M. *et al.*, *J.O.C.*, 1973, **38**, 4213

Maeda, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1974, **47**, 1018