>>**Entry Name: 4-Methylbenzophenone,** 8CI
Synonym(s): (4-Methylphenyl)phenylmethanone, 9CI. Phenyl *p*-tolyl ketone. 4-Benzoyltoluene

CAS Registry Number: 134-84-9

Molecular Formula: $C_{14}H_{12}O$
Molecular Weight: 196.248
Accurate Mass: 196.088815
Percentage Composition: C 85.68%; H 6.16%; O 8.15%
Use/Importance: Fixative in perfumery
Physical Description: Cryst. (petrol) in two forms
Melting Point: Mp 59-60° (stable form). Mp 55° (metastable form)
Boiling Point: Bp 326°
Hazard & Toxicity: LD_{50} (mus, ipr) 250 mg/kg

Aldrich: M2995-9

>>**Derivative:** (*E*)-Oxime

CAS Registry Number: 2998-91-6
Molecular Formula: $C_{14}H_{13}NO$
Molecular Weight: 211.263
Accurate Mass: 211.099714
Percentage Composition: C 79.59%; H 6.20%; N 6.63%; O 7.57%
Physical Description: Needles (EtOH aq.)
Melting Point: Mp 153-154°

>>**Derivative:** (*Z*)-Oxime

CAS Registry Number: 2998-92-7
Physical Description: Needles (EtOH)
Melting Point: Mp 136-137.5°

References:

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Davies, A.G. *et al.*, *J.C.S.*, 1954, 3474, *(synth)*
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