



>>Entry Name: 2-Benzoylnaphthalene

Synonym(s): (2-Naphthalenyl)phenylmethanone. β -Naphthyl phenyl ketone

CAS Registry Number: 644-13-3

Molecular Formula: $C_{17}H_{12}O$

Molecular Weight: 232.281

Accurate Mass: 232.088815

Percentage Composition: C 87.91%; H 5.21%; O 6.89%

Physical Description: Needles (EtOH)

Melting Point: Mp 82°

Boiling Point: Bp₇₅₄ 398°

Aldrich: 29892-1

>>Derivative: Oxime (isomer 1)

Molecular Formula: $C_{17}H_{13}NO$

Molecular Weight: 247.296

Accurate Mass: 247.099714

Percentage Composition: C 82.57%; H 5.30%; N 5.66%; O 6.47%

Physical Description: Needles (EtOH)

Melting Point: Mp 174°

>>Derivative: Oxime (isomer 2)

Molecular Formula: $C_{17}H_{13}NO$

Molecular Weight: 247.296

Accurate Mass: 247.099714

Percentage Composition: C 82.57%; H 5.30%; N 5.66%; O 6.47%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 157°

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **2**, 903A, (*nmr*)

Orchin, M. *et al.*, *J.A.C.S.*, 1949, **71**, 1126, (*synth*)

Warwick, D.A., *Spectrochim. Acta A*, 1968, **24**, 589, (*uv*)