



>>Entry Name: Tetraphenylethanone, 9CI

Synonym(s): 2,2,2-Triphenylacetophenone, 8CI. β -Benzopinacolone. Phenyl trityl ketone. Phenyl triphenylmethyl ketone. Benzoyltriphenylmethane

CAS Registry Number: 466-37-5

Ph₃CCOPh

Molecular Formula: C₂₆H₂₀O

Molecular Weight: 348.443

Accurate Mass: 348.151415

Percentage Composition: C 89.62%; H 5.79%; O 4.59%

Physical Description: Cryst. (EtOH or C₆H₆)

Melting Point: Mp 183-184° (181°)

Aldrich: 21669-0

>>Derivative: Di-Me ketal

Synonym(s): 1,1-Dimethoxy-1,2,2,2-tetraphenylethane

Molecular Formula: C₂₈H₂₆O₂

Molecular Weight: 394.512

Accurate Mass: 394.19328

Percentage Composition: C 85.25%; H 6.64%; O 8.11%

Physical Description: Cryst. (CH₂Cl₂/EtOH)

Melting Point: Mp 129-130.5°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 807C, (nmr)

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Kakis, F.J. *et al.*, *J.O.C.*, 1971, **36**, 4117, (synth)

Ando, W. *et al.*, *Chem. Lett.*, 1980, 1255, (synth)

Lindner, E. *et al.*, *Chem. Ber.*, 1981, **114**, 810, (synth)

Barton, D.H.R. *et al.*, *J.C.S. Perkin 1*, 1985, 2667, (synth)

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