



>>Entry Name: 1,1-Diphenyl-2-propyn-1-ol, 8Cl

Synonym(s): α -Ethynyl- α -phenylbenzenemethanol, 9Cl

CAS Registry Number: 3923-52-2

HC $\equiv$ CCPh₂OH

Molecular Formula: C₁₅H₁₂O

Molecular Weight: 208.259

Accurate Mass: 208.088815

Percentage Composition: C 86.51%; H 5.81%; O 7.68%

Physical Description: Cryst. (heptane)

Melting Point: Mp 47-48°

Boiling Point: Bp₁₈ 180°. Bp₂ 139-143°

Refractive Index: n_D²⁰ 1.5991

Fluka: 43210

Rare Chemicals Library: S5498-5

>>Derivative: Ac

Molecular Formula: C₁₇H₁₄O₂

Molecular Weight: 250.296

Accurate Mass: 250.09938

Percentage Composition: C 81.58%; H 5.64%; O 12.78%

Physical Description: Cryst. (hexane)

Melting Point: Mp 80.5-81.5°

>>Derivative: Me ether

Synonym(s): 3-Methoxy-3,3-diphenyl-1-propyne. 1,1'-(1-Methoxy-2-propynyldene)bisbenzene, 9Cl

CAS Registry Number: 13632-79-6

Molecular Formula: C₁₆H₁₄O

Molecular Weight: 222.286

Accurate Mass: 222.104465

Percentage Composition: C 86.45%; H 6.35%; O 7.20%

Physical Description: Liq.

Boiling Point: Bp₆₀ 200°

Other Data: Dec. slowly in light

References:

Hartzler, H.D., *J.A.C.S.*, 1961, **83**, 4990, (*synth, Ac*)

Rauss-Godineau, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1966, 2885, (*synth, Me ether*)

Gaspar, P.P. *et al.*, *J.A.C.S.*, 1980, **102**, 6108, (*synth*)

Garcia, J.G. *et al.*, *Acta Cryst. C*, 1995, **51**, 2674, (*cryst struct*)

Saalfrank, R.W. *et al.*, *Annalen*, 1996, 171, (*synth, ir, pmr, cmr*)