



>>Entry Name: 1-Nitro-2-phenylethylene

Synonym(s): (2-Nitroethenyl)benzene, 9Cl. β -Nitrostyrene, 8Cl. ω -Nitrostyrene

CAS Registry Number: 102-96-5

PhCH=CHNO₂

Molecular Formula: C₈H₇NO₂

Molecular Weight: 149.149

Accurate Mass: 149.047679

Percentage Composition: C 64.42%; H 4.73%; N 9.39%; O 21.45%

Use/Importance: Reagent for protection of cysteine groups

Rare Chemicals Library: S3669-3

>>Variant: (*E*)-form

CAS Registry Number: 5153-67-3

Molecular Formula: C₈H₇NO₂

Molecular Weight: 149.149

Accurate Mass: 149.047679

Percentage Composition: C 64.42%; H 4.73%; N 9.39%; O 21.45%

Physical Description: Yellow prisms (EtOH or petrol), pale yellow cryst. (hexane)

Melting Point: Mp 62.5-63.5°

Aldrich: N2680-6

Fluka: 73980

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 1130A, (*nmr*)

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Brownlee, R.T.C. *et al.*, *J.A.C.S.*, 1968, **90**, 1757, (*ir*)

Severin, T. *et al.*, *Chem. Ber.*, 1969, **102**, 3909, (*synth*)

Descotes, G. *et al.*, *Bull. Soc. Chim. Fr.*, 1970, 282, (*nmr*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1977, **6**, 422

Pedireddi, V.R. *et al.*, *J.C.S. Perkin 2*, 1992, 311, (*cryst struct*)

Denmark, S.E. *et al.*, *J.O.C.*, 1992, **57**, 4912, (*synth*, *pmr*, *cmr*)

McAnda, A.F. *et al.*, *J.C.S. Perkin 1*, 1998, 501-507, (*synth*, *pmr*)