



>>Entry Name: (3-Nitrophenyl)ethylene

Synonym(s): 1-Ethenyl-3-nitrobenzene, 9Cl. *m*-Nitrostyrene, 8Cl. 1-Nitro-3-vinylbenzene

CAS Registry Number: 586-39-0

Molecular Formula: C<sub>8</sub>H<sub>7</sub>NO<sub>2</sub>

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 oil

Melting Point: Mp -10°

Boiling Point: Bp<sub>11</sub> 120-121°. Bp<sub>1</sub> 81-82°

Solubility: Insol. H<sub>2</sub>O; sol. EtOH, Et<sub>2</sub>O, C<sub>6</sub>H<sub>6</sub>

Density: d<sup>32</sup> 1.555

Refractive Index: n<sub>D</sub><sup>20</sup> 1.5836

Other Data: Undergoes radical polym. Q/e values for copolym., Q 2.19, e 0.20

Aldrich: N2660-1

References:

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 687B, (*nmr*)

*Aldrich Library of FT-IR Spectra*, 1st edn., 1985, **1**, 1334D, (*ir*)

*Aldrich Library of FT-IR Spectra: Vapor Phase*, 1989, **3**, 1186D, (*ir*)

Wiley, R.H. *et al.*, *J. Polym. Sci.*, 1948, **3**, 444, (*polym*)

Smits, G., *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1949, **66**, 983, (*synth, polym*)

Still, R.H. *et al.*, *Chem. Ind. (London)*, 1967, 279, (*synth*)

Butcher, H. *et al.*, *Aust. J. Chem.*, 1973, **26**, 2067, (*synth*)

Fueno, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1973, **46**, 1418, (*pmr*)

Dorokhova, V.V. *et al.*, *Zh. Obshch. Khim.*, 1973, **43**, 2172, (*uv*)

Middleton, S. *et al.*, *Aust. J. Chem.*, 1974, **27**, 2583, (*ms*)

Greenley, R.Z. *et al.*, *J. Macromol. Sci., Chem., Part A*, 1980, **14**, 427, (*Q/e values*)