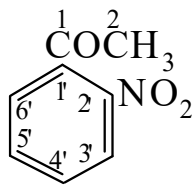




>>Entry Name: 2'-Nitroacetophenone, 8Cl

Synonym(s): 1-(2-Nitrophenyl)ethanone, 9Cl



CAS Registry Number: 577-59-3

Molecular Formula: C₈H₇NO₃

Molecular Weight: 165.148

Accurate Mass: 165.042594

Percentage Composition: C 58.18%; H 4.27%; N 8.48%; O 29.06%

Melting Point: Mp 27-28° (23°)

Boiling Point: Bp₃₂ 178-179°. Bp₃ 129°

Hazard & Toxicity: LD₅₀ (rat, orl) 1600 mg/kg

Aldrich: N920-9

Fluka: 72600

>>Derivative: Oxime

CAS Registry Number: 10342-62-8

Molecular Formula: C₈H₈N₂O₃

Molecular Weight: 180.163

Accurate Mass: 180.053493

Percentage Composition: C 53.33%; H 4.48%; N 15.55%; O 26.64%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 117°

>>Derivative: Semicarbazone

Melting Point: Mp 210° (rapid heat)

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 871C, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 49C, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1263C, (ir)

Aldrich Library of IR Spectra, 769D, (ir)

Aldrich Library of NMR Spectra, **6**, 41B, (nmr)

Ford-Moore, A.H. *et al.*, *J.C.S.*, 1946, 679

Org. Synth., Coll. Vol., 4, 1963, 709

Reio, L., *J. Chromatogr.*, 1974, **88**, 119

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, NEL450