



>>Entry Name: **2,2-Dichloroacetophenone**

Synonym(s): 2,2-Dichloro-1-phenylethanone, 9Cl. Phenacylidene chloride

CAS Registry Number: 2648-61-5

PhCOCHCl₂

Molecular Formula: C₈H₆Cl₂O

Molecular Weight: 189.04

Accurate Mass: 187.979569

Percentage Composition: C 50.83%; H 3.20%; Cl 37.51%; O 8.46%

Physical Description: Liq. or cryst.

Melting Point: Mp 20-21.5°

Boiling Point: Bp 249°. Bp₁₁ 131-132°

Other Data: With 2,4-Dinitrophenylhydrazine forms Phenylglyoxal bis(2,4-dinitrophenylhydrazone), red cryst., Mp 296° dec.

Hazard & Toxicity: Lachrymator, highly irritant

Aldrich: D5485-0

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 20B, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 22D, (*nmr*)

Roberts, J.D. *et al.*, *J.A.C.S.*, 1953, **75**, 4765

Reed, S.R., *J.O.C.*, 1965, **30**, 2193

Ficini, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1974, 1533, (*synth, ir, nmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, DEN200