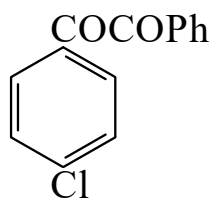




>>Entry Name: (4-Chlorophenyl)phenylethanedione, 9Cl

Synonym(s): *p*-Chlorobenzil



CAS Registry Number: 22711-23-5

Molecular Formula: C₁₄H₉ClO₂

Molecular Weight: 244.677

Accurate Mass: 244.029107

Percentage Composition: C 68.73%; H 3.71%; Cl 14.49%; O 13.08%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 73-74°

>>Derivative: Dioxime

CAS Registry Number: 43084-60-2

Molecular Formula: C₁₄H₁₁ClN₂O₂

Molecular Weight: 274.706

Accurate Mass: 274.050905

Percentage Composition: C 61.21%; H 4.04%; Cl 12.91%; N 10.20%; O 11.65%

Use/Importance: Used as 0.01-0.001*M* EtOH solns. for extraction-photometric detn. of Ni (λ_{max} 410 nm, ϵ 13000, CHCl₃), Fe(*II*) (1,2-dichloroethane), Cu (C₆H₆)

Physical Description: Cryst.

Melting Point: Mp 229-231°

Solubility: Sol. EtOH

References:

Hatt, H.H. *et al.*, *J.C.S.*, 1936, 93, (*synth*)

Kuse, S. *et al.*, *Anal. Chim. Acta*, 1974, **70**, 65, (*synth, use, deriv*)

Armesto, D. *et al.*, *Synthesis*, 1988, 799, (*synth*)