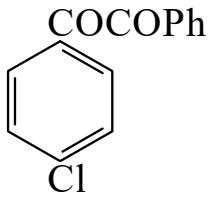
>>**Entry Name: (4-Chlorophenyl)phenylethanedione,** 9Cl
Synonym(s): *p*-Chlorobenzil



CAS Registry Number: 22711-23-5

Molecular Formula: $C_{14}H_9ClO_2$
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: $C_{14}H_{11}ClN_2O_2$
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, $CHCl_3$), Fe(*II*) (1,2-dichloroethane), Cu (C_6H_6)
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)*

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