



>>Entry Name: 2-Amino-5-chlorobenzophenone, 8Cl

Synonym(s): (2-Amino-5-chlorophenyl)phenylmethanone, 9Cl. 2-Benzoyl-4-chloroaniline

CAS Registry Number: 719-59-5

Molecular Formula: C₁₃H₁₀ClNO

Molecular Weight: 231.681

Accurate Mass: 231.045091

Percentage Composition: C 67.40%; H 4.35%; Cl 15.30%; N 6.05%; O 6.91%

Use/Importance: Key intermed. in synth. of minor tranquillisers

Physical Description: Yellow prisms

Melting Point: Mp 99°

Aldrich: A4556-4

Fluka: 7401

Sigma: A4632

>>Derivative: N-Ac

Molecular Formula: C₁₅H₁₂ClNO₂

Molecular Weight: 273.718

Accurate Mass: 273.055656

Percentage Composition: C 65.82%; H 4.42%; Cl 12.95%; N 5.12%; O 11.69%

Melting Point: Mp 117°

>>Derivative: Oxime

CAS Registry Number: 18097-52-4

Molecular Formula: C₁₃H₁₁ClN₂O

Molecular Weight: 246.695

Accurate Mass: 246.05599

Percentage Composition: C 63.29%; H 4.49%; Cl 14.37%; N 11.36%; O 6.49%

Physical Description: Two forms known

Melting Point: Mp 164-167°. Mp 129-132°

Rare Chemicals Library: S41344-5

>>Derivative: N-Me

CAS Registry Number: 1022-13-5

Molecular Formula: C₁₄H₁₂ClNO

Molecular Weight: 245.708

Accurate Mass: 245.060741

Percentage Composition: C 68.44%; H 4.92%; Cl 14.43%; N 5.70%; O 6.51%

Melting Point: Mp 95-96°

Aldrich: 19135-3

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 75A; 76A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 70D; 71A, (*ir*)

Walter, G.N., *J.O.C.*, 1962, **27**, 1929, (*synth*)

Stask, B., *J.O.C.*, 1964, **29**, 2856, (*synth*)

Jacobescu-Cilianu, S. *et al.*, *CA*, 1968, **69**, 106687, (*use*)

Lemke, T.L., *J. Chem. Eng. Data*, 1971, **16**, 260, (*pmr*)

Okabe, M. *et al.*, *Tetrahedron*, 1995, **51**, 1861, (*synth*)

Cox, P.J. *et al.*, *Acta Cryst. C*, 1997, **53**, 476-477, (*cryst struct, N-Me*)