



>>Entry Name: 2-(4-Chlorophenyl)ethylamine

Synonym(s): 4-Chlorobenzeneethanamine, 9Cl. 4-Chlorophenethylamine

CAS Registry Number: 156-41-2

Structure by analogy with 2-(2-Chlorophenyl)ethylamine, [NFG45-O](#)

Molecular Formula: C₈H₁₀ClN

Molecular Weight: 155.626

Accurate Mass: 155.050176

Percentage Composition: C 61.74%; H 6.48%; Cl 22.78%; N 9.00%

Use/Importance: Used in stimulation of sexual receptivity in the female rat

Physical Description: Liq.

Boiling Point: Bp₁₆ 115-118°. Bp₁₂ 124-129°

Refractive Index: n_D²⁰ 1.5480

Aldrich: C6540-8

Fluka: 25910

Sigma: C2012

>>Derivative: Hydrochloride

CAS Registry Number: 2492-83-3

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 240-243 dec.°

>>Derivative: *N,N*-Dichloro

Synonym(s): *N,N*,4-Trichlorobenzeneethanamine, 9Cl. *N,N*-Dichloro-2-(4-chlorophenylethyl)amine

CAS Registry Number: 174624-25-0

Molecular Formula: C₈H₈Cl₃N

Molecular Weight: 224.516

Accurate Mass: 222.97223

Percentage Composition: C 42.80%; H 3.59%; Cl 47.37%; N 6.24%

Biological Source: Prod. by *Rhodospirillum salexigens*

Use/Importance: Adhesion inhibitor in biofilm formation

Physical Description: Yellow cryst.

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 1092C

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **3**, 1172C

Martin, I.L. *et al.*, *Acta Cryst. B*, 1978, **34**, 2176, (*cryst struct*)

Price, R. *et al.*, *Ann. Appl. Biol.*, 1978, **89**, 479, (*synth*)

Bennington, F. *et al.*, *J.O.C.*, 1979, **23**, 1958, (*synth*)

Wilson, C.A. *et al.*, *Pharmacol., Biochem. Behav.*, 1982, **16**, 777; *CA*, **96**, 211162z, (*pharmacol*)

Vejdelek, Z. *et al.*, *Coll. Czech. Chem. Comm.*, 1990, **55**, 2345, (*synth*)

Caldwell, G.W. *et al.*, *Org. Mass Spectrom.*, 1990, **25**, 317, (*ms*)

Japan. Pat., 1996, 96 134 035; *CA*, **125**, 142249m, (*N,N*-dichloro)