



>>Entry Name: 12-Aminododecanoic acid, 9CI

CAS Registry Number: 693-57-2

$\text{H}_2\text{NCH}_2(\text{CH}_2)_{10}\text{COOH}$

Molecular Formula: $\text{C}_{12}\text{H}_{25}\text{NO}_2$

Molecular Weight: 215.335

Accurate Mass: 215.188529

Percentage Composition: C 66.93%; H 11.70%; N 6.50%; O 14.86%

Use/Importance: Monomer for polyamides, esp. the homopolymer (nylon 12)

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 185-187°

Aldrich: 15924-7

Sigma: A8903

>>Derivative: Hydrochloride

CAS Registry Number: 22543-30-2

Melting Point: Mp 163-164°

>>Derivative: 4-Methylbenzenesulfonyl

Melting Point: Mp 92-93°

>>Derivative: *N*-tert-Butoxycarbonyl

CAS Registry Number: 18934-81-1

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 80-81°

References:

- Aldrich Library of NMR Spectra*, 2nd edn., 1983, **1**, 491B, (*nmr*)
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 579C, (*ir*)
Huenig, S. *et al.*, *Angew. Chem., Int. Ed.*, 1963, **2**, 213
Genas, M. *et al.*, *Bull. Soc. Chim. Fr.*, 1965, 2833, (*synth*)
Zakharkin, L.I. *et al.*, *CA*, 1965, **62**, 6389d, (*synth*)
Huenig, S. *et al.*, *Chem. Ber.*, 1967, **100**, 3039; 213-214, (*synth*)
Chaturvedi, D.N. *et al.*, *J. Med. Chem.*, 1984, **27**, 1406, (*deriv*)
Ballini, R. *et al.*, *Eur. J. Org. Chem.*, 1999, 87-90, (*synth, ir, pmr*)