



CAS Registry Number: 17746-05-3
Molecular Formula: C₁₁H₂₁ClO
Molecular Weight: 204.739
Accurate Mass: 204.128092
Percentage Composition: C 64.53%; H 10.34%; Cl 17.32%; O 7.81%
Physical Description: Liq.
Boiling Point: Bp₂₀ 135-136°
Aldrich: 24943-2
Fluka: 94100
Sigma: U4626

>>Derivative: Amide
Synonym(s): Undecanamide, 9Cl

CAS Registry Number: 2244-06-6
Molecular Formula: C₁₁H₂₃NO
Molecular Weight: 185.309
Accurate Mass: 185.177964
Percentage Composition: C 71.30%; H 12.51%; N 7.56%; O 8.63%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 103° (98°)

>>Derivative: Nitrile
Synonym(s): Undecanenitrile, 9Cl

CAS Registry Number: 2244-07-7
Molecular Formula: C₁₁H₂₁N
Molecular Weight: 167.294
Accurate Mass: 167.167399
Percentage Composition: C 78.98%; H 12.65%; N 8.37%
Physical Description: Liq.
Boiling Point: Bp 253-254°
Aldrich: 14456-8

>>Derivative: Anhydride

CAS Registry Number: 2082-77-1
Molecular Formula: C₂₂H₄₂O₃
Molecular Weight: 354.572
Accurate Mass: 354.313395
Percentage Composition: C 74.52%; H 11.94%; O 13.54%
Physical Description: Cryst. (Me₂CO)
Melting Point: Mp 35°
Boiling Point: Bp_{17.5} 210-245° (lit. gives a pressure range)

References:

- Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 483D; 608B; 730D, (*ir*)
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 754C; 924A; 924B; 1196B; 1355A, (*nmr*)
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 576A; 627A; 627B; 799A, (*ir*)
Aldrich Library of NMR Spectra, **2**, 147C, (*pmr*)
Levene, P.A. *et al.*, *J. Biol. Chem.*, 1914, **18**, 464, (*synth*)
Cason, J. *et al.*, *J.O.C.*, 1950, **15**, 139, (*synth*)
Asahara, T. *et al.*, *Yushi Kagaku Kyokaishi*, 1952, **1**, 76; 79; *CA*, **47**, 3232e,f, (*synth, polym, vinyl ester*)
Hayashi, S. *et al.*, *Bull. Inst. Chem. Res., Kyoto Univ.*, 1968, **46**, 213; *CA*, **70**, 110173, (*ir*)
Gunstone, F.D. *et al.*, *Chem. Phys. Lipids*, 1976, **17**, 1, (*cmr*)
Vergoten, G. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. B*, 1977, **284**, 21, (*Raman*)
Greenley, R.Z., *J. Macromol. Sci., Chem., Part A*, 1980, **14**, 427, (*Q/e values, vinyl ester*)
Fenaroli's Handbook of Flavor Ingredients, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **2**, 271; 782
Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 1045-1046; 2870
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, UKA000