



>>Entry Name: 10-Undecenal, 9CI

ENTRY UNDER REVIEW

Synonym(s): FEMA 3095

CAS Registry Number: 112-45-8

Extra CAS Registry Numbers(s): 1337-83-3

$\text{H}_2\text{C}=\text{CH}(\text{CH}_2)_8\text{CHO}$

Molecular Formula: $\text{C}_{11}\text{H}_{20}\text{O}$

Molecular Weight: 168.278

Accurate Mass: 168.151415

Percentage Composition: C 78.51%; H 11.98%; O 9.51%

Biological Source: Found in coriander leaf (*Coriandrum sativum*)

Use/Importance: Perfumery and flavouring ingredient

Physical Description: Liq. with heavy flowery odour

Boiling Point: Bp_{10} 101-103°

Refractive Index: n_D^{21} 1.4464

Hazard & Toxicity: Skin irritant

Aldrich: 13227-6

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 91°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 474B, (ir)

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 740B, (nmr)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 563A, (ir)

Nigam, S.S. *et al.*, *J.C.S.*, 1957, 3320-3321, (synth)

Gringas, B.A. *et al.*, *Can. J. Chem.*, 1960, **38**, 712-719, (ir)

Hideg, K. *et al.*, *J.C.S. Perkin 1*, 1986, 1431-1438, (synth)

Lewis, R.J., *Food Additives Handbook*, Van Nostrand Reinhold International, New York, 1989, ULJ000

Clark, G.S., *Perfum. Flavor.*, 1997, **22**, 29-32, (rev, synth, props)

Kabalka, G.W. *et al.*, *Can. J. Chem.*, 1998, **76**, 800-805, (synth, pmr, cmr)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992