



>>Entry Name: 2,4-Nonadienal, 9CI

ENTRY UNDER REVIEW

Synonym(s): FEMA 3212

CAS Registry Number: 6750-03-4

Related CAS Registry Numbers(s): 5910-86-1 21661-99-4

$\text{H}_3\text{C}(\text{CH}_2)_3\text{CH}=\text{CHCH}=\text{CHCHO}$

Molecular Formula: $\text{C}_9\text{H}_{14}\text{O}$

Molecular Weight: 138.209

Accurate Mass: 138.104465

Percentage Composition: C 78.21%; H 10.21%; O 11.58%

>>Variant: (E,E)-form

CAS Registry Number: 5910-87-2

Molecular Formula: $\text{C}_9\text{H}_{14}\text{O}$

Molecular Weight: 138.209

Accurate Mass: 138.104465

Percentage Composition: C 78.21%; H 10.21%; O 11.58%

Biological Source: Present in various foods; lipid oxidn. prod.

Use/Importance: Flavour and fragrance ingredient (strong, fatty, floral odour)

Boiling Point: Bp_{10} 97-98°

Aldrich: 18055-6

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 136-138°

>>Variant: (2Z,4E)-form

CAS Registry Number: 5910-86-1

Molecular Formula: $\text{C}_9\text{H}_{14}\text{O}$

Molecular Weight: 138.209

Accurate Mass: 138.104465

Percentage Composition: C 78.21%; H 10.21%; O 11.58%

Physical Description: V. pale yellow liq.

Boiling Point: $\text{Bp}_{0.5}$ 75°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Cryst.

Melting Point: Mp 147-148°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 475C, (ir)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 743B, (nmr)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 565C, (ir)

Näf, F. *et al.*, *Helv. Chim. Acta*, 1974, **57**, 1309, (synth)

Lewis, R.J., *Food Additives Handbook*, Van Nostrand Reinhold International, New York, 1989, NMV775

Furber, M. *et al.*, *J.C.S. Perkin 1*, 1989, 683, (synth, uv, ir, pmr, ms)

Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 1965-1966, (occur, props)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, NMV775