



>>Entry Name: 2-Hexyl-3-phenyl-2-propenal

Synonym(s): 2-(Phenylmethylene)octanal, 9CI. α -Hexylcinnamaldehyde, 8CI. 2-Benzylideneoctanal. FEMA 2569

CAS Registry Number: 101-86-0

$\text{PhCH}=\text{C}(\text{CHO})(\text{CH}_2)_5\text{CH}_3$

Molecular Formula: $\text{C}_{15}\text{H}_{20}\text{O}$

Molecular Weight: 216.322

Accurate Mass: 216.151415

Percentage Composition: C 83.29%; H 9.32%; O 7.40%

Use/Importance: Important perfumery ingredient with jasmine-like odour. Also a flavouring agent

Melting Point: Mp 4°

Boiling Point: Bp 252°. Bp₂₀ 169°. Bp₁₅ 174-176°

Density: d_4^{25} 0.95

Refractive Index: n_D^{25} 1.5268

Hazard & Toxicity: Skin irritant. Fl. p. >100°

Aldrich: W25690-0

Rare Chemicals Library: S52831-5

>>Derivative: Semicarbazone

Melting Point: Mp 111.2°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 149°

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **2**, 927C, (*nmr*)

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Shorugin, P. *et al.*, *Zh. Russ. Fiz.-Khim. Ova., Chast Khim.*, 1930, **62**, 2033; *CA*, **25**, 4247⁶, (*synth*)

Seiichi, U. *et al.*, *Nippon Kagaku Kaishi*, 1949, **52**, 142; *CA*, **45**, 2150c, (*synth*)

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