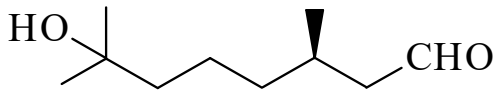
>>**Entry Name: 7-Hydroxy-3,7-dimethyloctanal,** 9CI, 8CI
Synonym(s): Hydroxycitronellal. Phixia. Citronellal hydrate



(*R*)-*form*

CAS Registry Number: 107-75-5

Molecular Formula: $C_{10}H_{20}O_2$
Molecular Weight: 172.267
Accurate Mass: 172.14633
Percentage Composition: C 69.72%; H 11.70%; O 18.58%
Source/Synthesis: Occurs in essential oils
Use/Importance: Important perfumery ingredient
Hazard & Toxicity: Skin irritant. Fl. p. >100°

Rare Chemicals Library: S35069-9

>>**Variant:** (*R*)-form

CAS Registry Number: 34212-48-1
Molecular Formula: $C_{10}H_{20}O_2$
Molecular Weight: 172.267
Accurate Mass: 172.14633
Percentage Composition: C 69.72%; H 11.70%; O 18.58%
Physical Description: Oil
Boiling Point: Bp_5 116°
Optical Rotation: $[\alpha]_D^{20}$+10

>>**Variant:** (*S*)-form

CAS Registry Number: 34212-53-8
Molecular Formula: $C_{10}H_{20}O_2$
Molecular Weight: 172.267
Accurate Mass: 172.14633
Percentage Composition: C 69.72%; H 11.70%; O 18.58%
Physical Description: Oil
Boiling Point: $Bp_{0.05}$ 110°
Optical Rotation: $[\alpha]_D^{20}$–9

>>**Variant:** (±)-form

CAS Registry Number: 123238-75-5
Molecular Formula: $C_{10}H_{20}O_2$
Molecular Weight: 172.267
Accurate Mass: 172.14633
Percentage Composition: C 69.72%; H 11.70%; O 18.58%
Physical Description: Liq. with fine, flowery odour
Refractive Index: n_D^{20} 1.4488
Other Data: Coml. prod. may be opt. active or racemic

>>**Derivative:** Di-Me acetal
Synonym(s): 8,8-Dimethoxy-2,6-dimethyl-2-octanol. Hydroxydihydrocitronellal dimethyl acetal

CAS Registry Number: 141-92-4
Molecular Formula: $C_{12}H_{26}O_3$
Molecular Weight: 218.336
Accurate Mass: 218.188195
Percentage Composition: C 66.01%; H 12.00%; O 21.98%
Use/Importance: Used in soap perfumes
Physical Description: Liq. with weak flowery odour
Boiling Point: Bp_{12} 131°
Refractive Index: n_D^{20} 1.4419
Other Data: Alkali-stable

Rare Chemicals Library: S35070-2