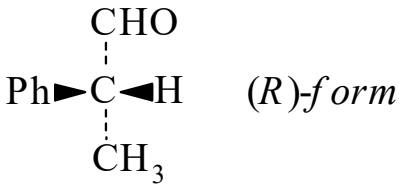
>>**Entry Name: 2-Phenylpropanal**
ENTRY UNDER REVIEW
Synonym(s): α-Methylbenzeneacetaldehyde, 9CI. Hydratropaldehyde, 8CI. Hydratropic aldehyde. 2-Phenylpropionaldehyde. FEMA 2886



(*R*)-*form*

CAS Registry Number: 93-53-8
Related CAS Registry Numbers(s): 90-87-9 59647-78-8

Molecular Formula: $C_9H_{10}O$
Molecular Weight: 134.177
Accurate Mass: 134.073165
Percentage Composition: C 80.56%; H 7.51%; O 11.92%
Physical Description: Liq. with sweet pungent taste suggestive of apricot
Hazard & Toxicity: LD_{50} (rat, orl) 2800 mg/kg

Aldrich: 24136-9

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

CAS Registry Number: 38235-74-4
Molecular Formula: $C_9H_{10}O$
Molecular Weight: 134.177
Accurate Mass: 134.073165
Percentage Composition: C 80.56%; H 7.51%; O 11.92%
Physical Description: Liq.
Boiling Point: Bp_5 85°
Optical Rotation: $[\alpha]_D^{25}$ –238 (neat) (100% op). $[\alpha]_D^{20}$ –288.3 (c, 0.5 in C_6H_6) (91% ee)

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

CAS Registry Number: 33530-47-1
Molecular Formula: $C_9H_{10}O$
Molecular Weight: 134.177
Accurate Mass: 134.073165
Percentage Composition: C 80.56%; H 7.51%; O 11.92%
Physical Description: Liq.
Boiling Point: Bp_5 85°
Optical Rotation: $[\alpha]_D^{20}$ +314.6 (c, 0.45 in C_6H_6) (99.4% ee)

>>**Derivative:** Di-Me acetal
Synonym(s): (2,2-Dimethoxy-1-methylethyl)benzene, 9CI. 1,1-Dimethoxy-2-phenylpropane

CAS Registry Number: 103593-60-8
Molecular Formula: $C_{11}H_{16}O_2$
Molecular Weight: 180.246
Accurate Mass: 180.11503
Percentage Composition: C 73.30%; H 8.95%; O 17.75%
Physical Description: Oil
Optical Rotation: $[\alpha]_D^{22}$ +3.3 (c, 1.01 in $CHCl_3$)

>>**Variant:** (±)-form

CAS Registry Number: 34713-70-7
Molecular Formula: $C_9H_{10}O$
Molecular Weight: 134.177
Accurate Mass: 134.073165
Percentage Composition: C 80.56%; H 7.51%; O 11.92%
Use/Importance: Perfumery and flavour ingredient
Physical Description: Liq.
Boiling Point: Bp 202-205°. Bp_{12} 92-92.5°
Refractive Index: n_D^{20} 1.5170
Fluka: 53790