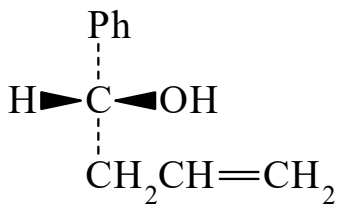
>>**Entry Name: 1-Phenyl-3-buten-1-ol**
Synonym(s): α-2-Propenylbenzenemethanol, 9CI. Allylphenylcarbinol



(*R*)-*form*

CAS Registry Number: 936-58-3

Molecular Formula: $C_{10}H_{12}O$
Molecular Weight: 148.204
Accurate Mass: 148.088815
Percentage Composition: C 81.04%; H 8.16%; O 10.80%

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

CAS Registry Number: 85551-57-1
Molecular Formula: $C_{10}H_{12}O$
Molecular Weight: 148.204
Accurate Mass: 148.088815
Percentage Composition: C 81.04%; H 8.16%; O 10.80%
Optical Rotation: $[\alpha]_D^{18}$+48.3 (C_6H_6)

>>**Derivative:** Hydrogen 3-nitrophthalate

Physical Description: Plates (C_6H_6/petrol)
Melting Point: Mp 126-127°
Optical Rotation: $[\alpha]_D^{18}$+17.9 ($CHCl_3$)

>>**Derivative:** Me ether
Synonym(s): 4-Methoxy-4-phenyl-1-butene

CAS Registry Number: 86766-46-3
Molecular Formula: $C_{11}H_{14}O$
Molecular Weight: 162.231
Accurate Mass: 162.104465
Percentage Composition: C 81.44%; H 8.70%; O 9.86%
Boiling Point: $Bp_{0.1}$ 35-40°
Optical Rotation: $[\alpha]_D^{22}$ -+35.02 (c, 2.17 in $CDCl_3$)

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

CAS Registry Number: 77118-87-7
Molecular Formula: $C_{10}H_{12}O$
Molecular Weight: 148.204
Accurate Mass: 148.088815
Percentage Composition: C 81.04%; H 8.16%; O 10.80%
Boiling Point: Bp_{15} 105-110°
Optical Rotation: $[\alpha]_D^{23}$–44.92 (c, 7.38 in C_6H_6) (96% ee)

>>**Variant:** (±)-form

CAS Registry Number: 80735-94-0
Molecular Formula: $C_{10}H_{12}O$
Molecular Weight: 148.204
Accurate Mass: 148.088815
Percentage Composition: C 81.04%; H 8.16%; O 10.80%
Boiling Point: Bp 228-229°. Bp_3 88-90°
Density: d^{18} 1.004
Refractive Index: $n_D^{21.5}$1.5289