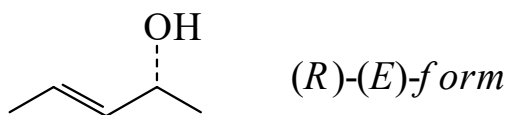




>>Entry Name: 3-Penten-2-ol, 9CI
Synonym(s): α,γ -Dimethylallyl alcohol



CAS Registry Number: 1569-50-2
Related CAS Registry Numbers(s): 3899-34-1 24652-50-4 42569-15-3 42569-16-4

Molecular Formula: $C_5H_{10}O$
Molecular Weight: 86.133
Accurate Mass: 86.073165
Percentage Composition: C 69.72%; H 11.70%; O 18.58%

Fluka: 77030

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

CAS Registry Number: 35666-69-4
Molecular Formula: $C_5H_{10}O$
Molecular Weight: 86.133
Accurate Mass: 86.073165
Percentage Composition: C 69.72%; H 11.70%; O 18.58%
Physical Description: Liq.
Optical Rotation: $[\alpha]_D^{23} +11.02$ (c, 1.18 in $CDCl_3$)

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

CAS Registry Number: 79646-46-1
Molecular Formula: $C_5H_{10}O$
Molecular Weight: 86.133
Accurate Mass: 86.073165
Percentage Composition: C 69.72%; H 11.70%; O 18.58%
Physical Description: Liq.
Optical Rotation: $[\alpha]_D^{20} -11$ (neat)

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

CAS Registry Number: 926-58-9
Molecular Formula: $C_5H_{10}O$
Molecular Weight: 86.133
Accurate Mass: 86.073165
Percentage Composition: C 69.72%; H 11.70%; O 18.58%
Physical Description: Liq.
Boiling Point: Bp 118-121°
Optical Rotation: $[\alpha]_D^{25} +0.41 \rightarrow -0.07$ (1h) (2d)
Refractive Index: $n_D^{25} 1.4250$

>>Derivative: Acid phthalate

Melting Point: Mp 79-82°
Optical Rotation: $[\alpha]_D^{25} +33.9$ (Et_2O)

>>Derivative: Ac

CAS Registry Number: 131616-47-2
Molecular Formula: $C_7H_{12}O_2$
Molecular Weight: 128.171
Accurate Mass: 128.08373
Percentage Composition: C 65.60%; H 9.44%; O 24.97%
Physical Description: Pale yellow oil
Optical Rotation: $[\alpha]_D^{20} -65.5$ (c, 1.2 in EtOH)