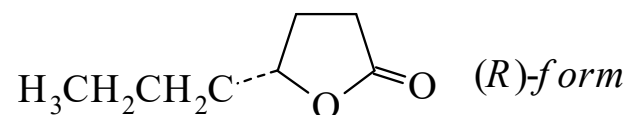




>>Entry Name: Dihydro-5-propyl-2(3*H*)-furanone, 9CI

ENTRY UNDER REVIEW

Synonym(s): 4-Hydroxyheptanoic acid lactone. γ -Propyl- γ -butyrolactone. FEMA 2539



CAS Registry Number: 105-21-5

Molecular Formula: $\text{C}_7\text{H}_{12}\text{O}_2$

Molecular Weight: 128.171

Accurate Mass: 128.08373

Percentage Composition: C 65.60%; H 9.44%; O 24.97%

Biological Source: Constit. of numerous food sources

Use/Importance: Flavouring agent

Hazard & Toxicity: Skin irritant

Aldrich: W25390-1

>>Variant: (*R*)-form

CAS Registry Number: 88270-38-6

Molecular Formula: $\text{C}_7\text{H}_{12}\text{O}_2$

Molecular Weight: 128.171

Accurate Mass: 128.08373

Percentage Composition: C 65.60%; H 9.44%; O 24.97%

Optical Rotation: $[\alpha]_{\text{D}}$ +56.2 (c, 1.56 in THF)

>>Variant: (*S*)-form

CAS Registry Number: 31323-51-0

Molecular Formula: $\text{C}_7\text{H}_{12}\text{O}_2$

Molecular Weight: 128.171

Accurate Mass: 128.08373

Percentage Composition: C 65.60%; H 9.44%; O 24.97%

Boiling Point: Bp_{20} 145-150°

Optical Rotation: $[\alpha]_{\text{D}}^{25}$ -55.9 (c, 1.54 in THF)

>>Variant: ($\pm$)-form

CAS Registry Number: 57129-71-2

Molecular Formula: $\text{C}_7\text{H}_{12}\text{O}_2$

Molecular Weight: 128.171

Accurate Mass: 128.08373

Percentage Composition: C 65.60%; H 9.44%; O 24.97%

Boiling Point: Bp_5 123-124°

References:

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