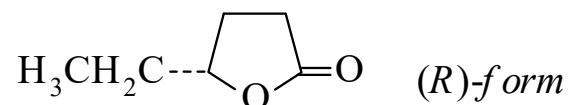




>>Entry Name: 5-Ethylidihydro-2(3*H*)-furanone, 9CI

ENTRY UNDER REVIEW

Synonym(s): 4-Hexanolactone. 4-Caprolactone. 4-Ethylbutyrolactone. 4-Hydroxyhexanoic acid lactone. 4-Hexanolide. γ -Hexalactone. FEMA 2556



CAS Registry Number: 695-06-7

Molecular Formula: $\text{C}_6\text{H}_{10}\text{O}_2$

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Biological Source: Constit. of soft fruits. Pheromone for the beetle *Trogoderma granarium*

Use/Importance: Used in perfumery

Hazard & Toxicity: Skin irritant

Aldrich: 30383-6

>>Variant: (*R*)-form

CAS Registry Number: 63357-95-9

Molecular Formula: $\text{C}_6\text{H}_{10}\text{O}_2$

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Optical Rotation: $[\alpha]_{\text{D}}^{20} +53.2$ (c, 1 in MeOH)

>>Variant: (*S*)-form

CAS Registry Number: 41035-07-8

Molecular Formula: $\text{C}_6\text{H}_{10}\text{O}_2$

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Optical Rotation: $[\alpha]_{\text{D}}^{20} -53.2$ (c, 1 in MeOH)

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

CAS Registry Number: 57129-70-1

Molecular Formula: $\text{C}_6\text{H}_{10}\text{O}_2$

Molecular Weight: 114.144

Accurate Mass: 114.06808

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Use/Importance: Flavouring ingredient

Boiling Point: Bp 215-216°. Bp_{0.2} 50-60° (bath)

Solubility: Sol. aq. alkalis

References:

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