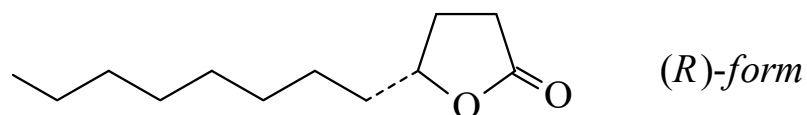




>>Entry Name: Dihydro-5-octyl-2(3*H*)-furanone, 9CI

ENTRY UNDER REVIEW

Synonym(s): 4-Hydroxydodecanoic acid γ -lactone. 4-Dodecanolide. γ -Dodecalactone. γ -Dodecanolactone. FEMA 2402. FEMA 2400



CAS Registry Number: 2305-05-7

Molecular Formula: C₁₂H₂₂O₂

Molecular Weight: 198.305

Accurate Mass: 198.16198

Percentage Composition: C 72.68%; H 11.18%; O 16.14%

Biological Source: Found in the pygidial glands of the beetles *Bledius mandibularis* and *Bledius spectabilis*

Use/Importance: Flavouring ingredient

Biological Use/Importance: Antifungal agent

Hazard & Toxicity: Skin irritant

Aldrich: W24000-1

>>Variant: (*R*)-form

CAS Registry Number: 69830-91-7

Molecular Formula: C₁₂H₂₂O₂

Molecular Weight: 198.305

Accurate Mass: 198.16198

Percentage Composition: C 72.68%; H 11.18%; O 16.14%

Optical Rotation: [α]_D +37.7 (c, 1 in MeOH)

>>Variant: (*S*)-form

CAS Registry Number: 69830-92-8

Molecular Formula: C₁₂H₂₂O₂

Molecular Weight: 198.305

Accurate Mass: 198.16198

Percentage Composition: C 72.68%; H 11.18%; O 16.14%

Optical Rotation: [α]_D −32.8 (c, 1.6 in MeOH)

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

CAS Registry Number: 57084-18-1

Molecular Formula: C₁₂H₂₂O₂

Molecular Weight: 198.305

Accurate Mass: 198.16198

Percentage Composition: C 72.68%; H 11.18%; O 16.14%

Use/Importance: Used in perfumery and flavour industries

Physical Description: Oil

Boiling Point: B_{p11} 170-171°

>>Variant: (ξ)-form

Molecular Formula: C₁₂H₂₂O₂

Molecular Weight: 198.305

Accurate Mass: 198.16198

Percentage Composition: C 72.68%; H 11.18%; O 16.14%

Biological Source: Found in the pygidial glands of the beetles *Bledius mandibularis* and *Bledius spectabilis*. Also present in several food aromas

References: