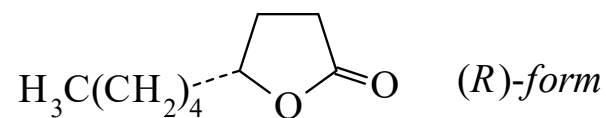




>>Entry Name: Dihydro-5-pentyl-2(3*H*)-furanone, 9Cl, 8Cl

Synonym(s): γ -Nonalactone. 4-Hydroxynonanoic acid γ -lactone. γ -Amylbutyrolactone. 1,4-Nonanolide. 5-Pentylidihydro-2(3*H*)-furanone. γ -Pelargonolactone. Apricolin. Prunolide. Cocos aldehyde (misleading). Aldehyde C₁₈ (misleading). FEMA 2781



CAS Registry Number: 104-61-0

Related CAS Registry Numbers(s): 82373-92-0

Molecular Formula: C₉H₁₆O₂

Molecular Weight: 156.224

Accurate Mass: 156.11503

Percentage Composition: C 69.19%; H 10.32%; O 20.48%

Biological Source: Isol. from ethereal oil of *Rosa rugosa*

Use/Importance: Flavouring agent

Physical Description: Liq. with coconut odour and fatty taste

Hazard & Toxicity: Skin irritant

Aldrich: W27810-6

>>Variant: (R)-form

CAS Registry Number: 63357-96-0

Molecular Formula: C₉H₁₆O₂

Molecular Weight: 156.224

Accurate Mass: 156.11503

Percentage Composition: C 69.19%; H 10.32%; O 20.48%

Use/Importance: Repellent for cats and dogs: attractant for rice weevil *Sitophilus zeamais*

Physical Description: Oil

Boiling Point: Bp₁₂ 108°

Optical Rotation: $[\alpha]_D^{24} +47.5$ (c, 1.82 in MeOH)

Other Data: $\nu_{\max}$ 1770 cm⁻¹

>>Variant: (S)-form

CAS Registry Number: 63357-97-1

Molecular Formula: C₉H₁₆O₂

Molecular Weight: 156.224

Accurate Mass: 156.11503

Percentage Composition: C 69.19%; H 10.32%; O 20.48%

Optical Rotation: $[\alpha]_D^{24} -47.9$ (c, 1.70 in MeOH)

>>Variant: (±)-form

CAS Registry Number: 57084-16-9

Molecular Formula: C₉H₁₆O₂

Molecular Weight: 156.224

Accurate Mass: 156.11503

Percentage Composition: C 69.19%; H 10.32%; O 20.48%

Use/Importance: Perfumery and flavouring ingredient. Used in coconut flavours

Boiling Point: Bp₁₂ 134-134.5°. Bp_{1.5} 93-94°

Fluka: 74312

References: