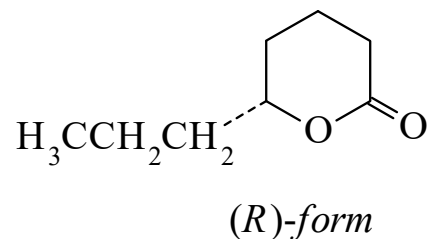




>>Entry Name: Tetrahydro-6-propyl-2*H*-pyran-2-one, 9CI

ENTRY UNDER REVIEW

Synonym(s): δ -Octalactone. 5-Octanolide. 5-Hydroxyoctanoic acid lactone. FEMA 3214



CAS Registry Number: 698-76-0

Molecular Formula: C₈H₁₄O₂

Molecular Weight: 142.197

Accurate Mass: 142.09938

Percentage Composition: C 67.57%; H 9.92%; O 22.50%

Biological Source: Isol. from many substances incl. coconut and butter oils, fruits (e.g. strawberry, pineapple) and tobacco

Use/Importance: Used in food flavouring and/or perfumery

>>Variant: (*R*)-form

CAS Registry Number: 108943-45-9

Molecular Formula: C₈H₁₄O₂

Molecular Weight: 142.197

Accurate Mass: 142.09938

Percentage Composition: C 67.57%; H 9.92%; O 22.50%

Boiling Point: Bp₁₈ 130-140°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +58.4$ (c, 2.2 in MeOH). $[\alpha]_{\text{D}} +66.5$ (c, 1.7 in THF)

>>Variant: (*S*)-form

CAS Registry Number: 108943-46-0

Molecular Formula: C₈H₁₄O₂

Molecular Weight: 142.197

Accurate Mass: 142.09938

Percentage Composition: C 67.57%; H 9.92%; O 22.50%

Source/Synthesis: Formed from Hydroxyalkenoic acid by *Cladosporium suaveolens*

Boiling Point: Bp₂ 70-80°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -58.8$ (c, 1 in THF)

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

CAS Registry Number: 104426-32-6

Molecular Formula: C₈H₁₄O₂

Molecular Weight: 142.197

Accurate Mass: 142.09938

Percentage Composition: C 67.57%; H 9.92%; O 22.50%

Physical Description: Liq.

Melting Point: Mp -13°

Boiling Point: Bp₁₅ 126°

Refractive Index: n_{D}^{25} 1.4535 n_{D}^{25} 1.4527 n_{D}^{25} 1.4700

References: