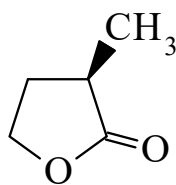




>>Entry Name: Dihydro-3-methyl-2(3*H*)-furanone, 9CI

Synonym(s): α -Methyl- γ -butyrolactone. 2-Methyl-4-butanolide



(*R*)-form

CAS Registry Number: 1679-47-6

Molecular Formula: C₅H₈O₂

Molecular Weight: 100.117

Accurate Mass: 100.05243

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Biological Source: Present in *Mangifera indica*, sex pheromone of Mediterranean fruit fly *Ceratitis capitata*

Aldrich: 11775-7

Fluka: 66144

Sigma: M5892

>>Variant: (*R*)-form

CAS Registry Number: 55254-35-8

Molecular Formula: C₅H₈O₂

Molecular Weight: 100.117

Accurate Mass: 100.05243

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Physical Description: Liq.

Boiling Point: Bp₂₂ 93-95°

Optical Rotation: $[\alpha]_{\text{D}}^{23} +13.8$ (c, 10.0 in EtOH)

>>Variant: (*S*)-form

CAS Registry Number: 65527-79-9

Molecular Formula: C₅H₈O₂

Molecular Weight: 100.117

Accurate Mass: 100.05243

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Boiling Point: Bp₂₀ 94-95°

Optical Rotation: $[\alpha]_{\text{D}}^{24} -14.7$ (c, 6.3 in EtOH)

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

CAS Registry Number: 69010-09-9

Molecular Formula: C₅H₈O₂

Molecular Weight: 100.117

Accurate Mass: 100.05243

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Boiling Point: Bp₂₀ 92.5°

Refractive Index: n_D²⁰ 1.4332

References: