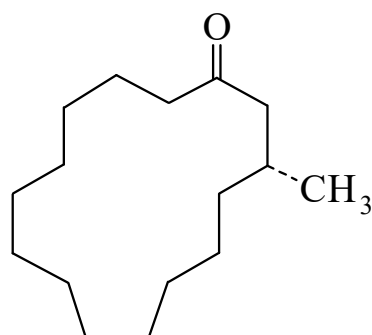




>>Entry Name: 3-Methylcyclopentadecanone

ENTRY UNDER REVIEW

Synonym(s): Muscone. FEMA 3434



(R)-form

CAS Registry Number: 541-91-3

Molecular Formula: $C_{16}H_{30}O$

Molecular Weight: 238.412

Accurate Mass: 238.229665

Percentage Composition: C 80.61%; H 12.68%; O 6.71%

Hazard & Toxicity: Skin irritant

>>Variant: (R)-form

CAS Registry Number: 10403-00-6

Molecular Formula: $C_{16}H_{30}O$

Molecular Weight: 238.412

Accurate Mass: 238.229665

Percentage Composition: C 80.61%; H 12.68%; O 6.71%

Biological Source: Contained in natural musk

Boiling Point: $Bp_{0.5}$ 130°

Optical Rotation: $[\alpha]_D^{17}$ -13.9

Density: d_4^{17} 0.922

Refractive Index: n_D^{17} 1.4802

>>Derivative: Semicarbazone

Melting Point: Mp 134°

>>Variant: (S)-form

CAS Registry Number: 63975-98-4

Molecular Formula: $C_{16}H_{30}O$

Molecular Weight: 238.412

Accurate Mass: 238.229665

Percentage Composition: C 80.61%; H 12.68%; O 6.71%

Optical Rotation: $[\alpha]_D$ +13.83

>>Derivative: Semicarbazone

Melting Point: Mp 132.2-132.8°

>>Variant: (±)-form

CAS Registry Number: 956-82-1

Molecular Formula: $C_{16}H_{30}O$

Molecular Weight: 238.412

Accurate Mass: 238.229665

Percentage Composition: C 80.61%; H 12.68%; O 6.71%

Use/Importance: Important perfume ingredient

Boiling Point: $Bp_{0.8}$ 132-134°

>>Derivative: Semicarbazone

Melting Point: Mp 134.5°

References: