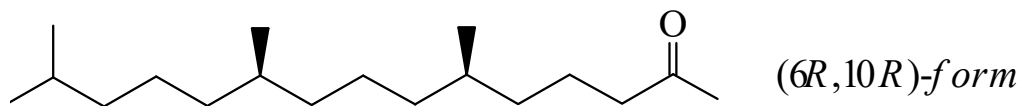




>>Entry Name: 6,10,14-Trimethyl-2-pentadecanone

Synonym(s): Phytone



CAS Registry Number: 502-69-2

Related CAS Registry Numbers(s): 22571-87-5 57760-55-1 96093-84-4 125354-91-8

Molecular Formula: C₁₈H₃₆O

Molecular Weight: 268.482

Accurate Mass: 268.276615

Percentage Composition: C 80.53%; H 13.51%; O 5.96%

Biological Source: Widespread in plant spp.

Boiling Point: Bp₁ 135-137°

>>Variant: (6*R*,10*R*)-form

CAS Registry Number: 16825-16-4

Molecular Formula: C₁₈H₃₆O

Molecular Weight: 268.482

Accurate Mass: 268.276615

Percentage Composition: C 80.53%; H 13.51%; O 5.96%

Optical Rotation: $[\alpha]_{\text{D}}^{25} +0.59$ (c, 4.4 in Et₂O)

References:

- Tori, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1985, **58**, 2669, (*synth*)
Enzell, C.R. *et al.*, *Mass Spectrom. Rev.*, 1986, **5**, 39, (*ms*)
Kulkarni, S.N. *et al.*, *Indian J. Chem., Sect. B*, 1987, **26**, 685, (*synth*)
Baglai, A.K. *et al.*, *J. Chem. Eng. Data*, 1988, **33**, 512, (*props*)
Suga, T. *et al.*, *J.O.C.*, 1989, **54**, 3390, (*synth, cmr, cd, glc*)
Mignani, G. *et al.*, *Tet. Lett.*, 1990, **31**, 5161, (*synth*)