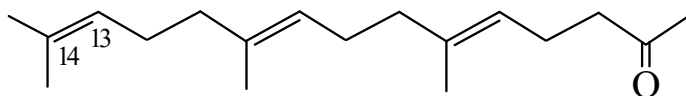




>>Entry Name: 6,10,14-Trimethyl-5,9,13-pentadecatrien-2-one, 9Cl
ENTRY UNDER REVIEW



CAS Registry Number: 762-29-8

Molecular Formula: C₁₈H₃₀O

Molecular Weight: 262.434

Accurate Mass: 262.229665

Percentage Composition: C 82.38%; H 11.52%; O 6.10%

Fluka: 46195

>>Variant: (5*E*,9*E*)-form

Synonym(s): Farnesylacetone

CAS Registry Number: 1117-52-8

Molecular Formula: C₁₈H₃₀O

Molecular Weight: 262.434

Accurate Mass: 262.229665

Percentage Composition: C 82.38%; H 11.52%; O 6.10%

Biological Source: Present in various plants, e.g. tobacco, tomato

Refractive Index: n_D²⁰ 1.4816

Other Data: Other stereoisomers also prepd.

>>Derivative: Semicarbazone

Melting Point: Mp 81-82°

>>Derivative: 13*R*,14-Epoxyde

Synonym(s): 12-(3,3-Dimethyloxiranyl)-5,9-dodecadien-2-one, 9Cl. Farnesylacetone epoxide

CAS Registry Number: 66067-35-4

Molecular Formula: C₁₈H₃₀O₂

Molecular Weight: 278.434

Accurate Mass: 278.22458

Percentage Composition: C 77.65%; H 10.86%; O 11.49%

Biological Source: Constit. of *Cystophora moniliformis*

Physical Description: Oil

Optical Rotation: [α]_D -3.2 (c, 1 in CHCl₃)

References:

- Isler, O. *et al.*, *Helv. Chim. Acta*, 1958, **41**, 786, (*synth*)
Laats, K. *et al.*, *CA*, 1969, **70**, 106666g; 1975, **83**, 97600v, (*synth*)
Kazlauskas, R. *et al.*, *Experientia*, 1978, **34**, 156, (*epoxide*)
Ferezou, J.-P. *et al.*, *Helv. Chim. Acta*, 1978, **61**, 669, (*biosynth*)
Enzell, C.R. *et al.*, *Mass Spectrom. Rev.*, 1986, **5**, 39, (*ms*)