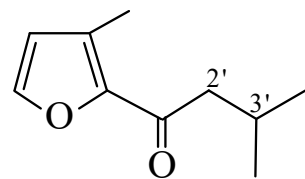




>>Entry Name: Elsholtzione

Synonym(s): 3-Methyl-1-(3-methyl-2-furanyl)-1-butanone, 9Cl. 2-Isobutyryl-3-methylfuran. Elsholtzia ketone



CAS Registry Number: 488-05-1

Type of Compound Code(s): VS0100

Molecular Formula: C₁₀H₁₄O₂

Molecular Weight: 166.219

Accurate Mass: 166.09938

Percentage Composition: C 72.26%; H 8.49%; O 19.25%

Biological Source: Constit. of *Elsholtzia cristata* and other *Elsholtzia* spp.

Physical Description: Oil

Boiling Point: Bp_{2.2} 59.5-60°

>>Derivative: Semicarbazone

Physical Description: Cryst. (MeOH)

Melting Point: Mp 171-172°

>>Derivative: 2',3'-Didehydro

Synonym(s): 3-Methyl-1-(3-methyl-1-furanyl)-2-buten-1-one, 9Cl. **Dehydroelsholtzione**. Naginata ketone

CAS Registry Number: 6138-88-1

Type of Compound Code(s): VS0100

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Source: Constit. of *Elsholtzia oldhami*, *Elsholtzia ciliata* and *Perilla* spp.

Physical Description: Oil

Boiling Point: Bp_{2.2} 81°

Density: d₄²⁰ 1.016

Other Data: n_D²⁰ 1.5351

References:

Naves, Y.-R. *et al.*, *Helv. Chim. Acta*, 1960, **43**, 406, (*isol*)

Cazes, B. *et al.*, *Synth. Commun.*, 1977, **7**, 113, (*synth*)

Pillot, J.P. *et al.*, *Tet. Lett.*, 1980, 4717, (*synth*)

Liu, C. *et al.*, *J. Het. Chem.*, 1984, **21**, 129, (*isol, purifn, ir, pmr*)

Tsukasa, H., *Agric. Biol. Chem.*, 1991, **55**, 1433, (*synth*)

Cahiez, G. *et al.*, *Tet. Lett.*, 1992, **33**, 5245, (*synth*)

Dembitskii, A.D. *et al.*, *Khim. Prir. Soedin.*, 1993, **29**, 823; *Chem. Nat. Compd. (Engl. Transl.)*, 1993, **29**, 733, (*isol, pmr*)