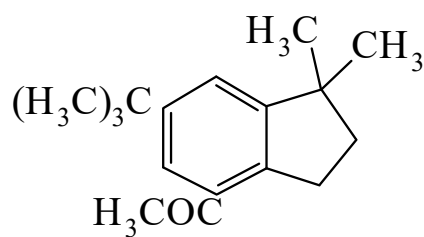




>>Entry Name: 4-Acetyl-6-*tert*-butyl-1,1-dimethylindane

ENTRY UNDER REVIEW

Synonym(s): 1-[6-(1,1-Dimethylethyl)-2,3-dihydro-1,1-dimethyl-1*H*-inden-4-yl]ethanone, 9CI. 6-*tert*-Butyl-1,1-dimethyl-4-indanyl methyl ketone, 8CI. Celestolide. Chrysolide. Musk celestolide. Esperone. FEMA 3653



CAS Registry Number: 13171-00-1

Molecular Formula: C₁₇H₂₄O

Molecular Weight: 244.376

Accurate Mass: 244.182715

Percentage Composition: C 83.55%; H 9.90%; O 6.55%

Use/Importance: Strong musk odorant

Physical Description: Cryst. (MeOH)

Melting Point: Mp 77.2-77.9°

>>Derivative: Semicarbazone

Physical Description: Cryst. (EtOH)

Melting Point: Mp 168-168.6°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Cryst. (MeOH)

Melting Point: Mp 180-181°

References:

Beets, M.G.J. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1958, **77**, 854-871, (*synth, struct*)

Ferrero, C. *et al.*, *Helv. Chim. Acta*, 1959, **42**, 2111-2121, (*synth*)

U.S. Pat., 1959, 2 899 358; *CA*, **54**, 1475, (*synth*)

Opdyke, D.L.J., *Food Cosmet. Toxicol.*, Suppl., 1976, **14**, 669, (*rev, tox*)

De Ridder, D.J.A. *et al.*, *Acta Cryst. C*, 1992, **48**, 140-142, (*cryst struct*)

Kagabu, S. *et al.*, *J. Chem. Educ.*, 1992, **69**, 420-421, (*synth*)

Fenaroli's Handbook of Flavor Ingredients, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **2**, 10

Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 27