



Molecular Weight: 624.597
Accurate Mass: 624.184295
Percentage Composition: C 61.54%; H 5.16%; O 33.30%
Biological Source: Isol. from commercial rhubarbs
Physical Description: Needles + $\frac{1}{2}$ H₂O
Melting Point: Mp 134-136°
Optical Rotation: $[\alpha]_D^{26}$ -38.2 (c, 0.73 in Me₂CO)

>>**Derivative:** Me ether

Synonym(s): 4-(4-Methoxyphenyl)-2-butanone. Anisylactone. FEMA 2672

CAS Registry Number: 104-20-1

Molecular Formula: C₁₁H₁₄O₂
Molecular Weight: 178.23
Accurate Mass: 178.09938
Percentage Composition: C 74.13%; H 7.92%; O 17.95%
Use/Importance: Used in cosmetics
Biological Use/Importance: Insect attractant for scarabaeid subfamily, Rutelinae
Physical Description: Liq. with raspberry - cherry flavour at low conc.
Melting Point: Mp 9-10°
Boiling Point: Bp 277°. Bp_{0.025} 87-89°
Density: d₄²² 1.05

Aldrich: W26720-1

Fluka: 65161

Rare Chemicals Library: S88210-0

References:

- Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **2**, 5C, (*ir*)
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 794C; 795B; 1292C, (*nmr*)
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1222A; 1383B, (*ir*)
Schinz, H. *et al.*, *Helv. Chim. Acta*, 1957, **40**, 1839; 1961, **44**, 278, (*isol, struct*)
Winter, H., *Helv. Chim. Acta*, 1961, **44**, 2110, (*synth*)
Prasad, D. *et al.*, *J. Indian Chem. Soc.*, 1962, **39**, 735, (*synth*)
Murakami, T. *et al.*, *Tet. Lett.*, 1972, 2965-2968, (*isol, glucoside*)
Chalk, A.J. *et al.*, *J.O.C.*, 1976, **41**, 1206, (*synth*)
Gonzalez, A.G. *et al.*, *Phytochemistry*, 1976, **15**, 344, (*Lindleyin*)
Shimaiskaya, G.V. *et al.*, *CA*, 1978, **89**, 6065; 1982, **96**, 85168, (*synth*)
Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1978, **16**, 781, (*rev, tox*)
Nonaka, G.I. *et al.*, *Chem. Pharm. Bull.*, 1981, **29**, 2862, (*Lindleyin, Isolindleyin*)
Kashiwada, Y. *et al.*, *Chem. Pharm. Bull.*, 1986, **34**, 3237, (*glycosides*)
Pabst, A. *et al.*, *Phytochemistry*, 1990, **29**, 3853-3858, (*isol, glucoside*)
Tateiwa, J. *et al.*, *J.O.C.*, 1994, **59**, 5901, (*synth*)
Borejsza-Wysocki, W. *et al.*, *Phytochemistry*, 1994, **35**, 623, (*biosynth*)
Fan, W. *et al.*, *Chem. Pharm. Bull.*, 2000, **48**, 1055-1061, (*isol, pmr, cmr, glycosides*)
Pesticide Manual, 12th edn., 2000, No. 178
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, AAR500; RBU000