



>>Entry Name: [10]-Gingerol

Synonym(s): 5-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-3-tetradecanone, 9CI

CAS Registry Number: 107257-18-1

As [6]-Gingerol, [HCV46-D](#) with
n = 8

Molecular Formula: C₂₁H₃₄O₄

Molecular Weight: 350.497

Accurate Mass: 350.24571

Percentage Composition: C 71.96%; H 9.78%; O 18.26%

>>Variant: (S)-form

CAS Registry Number: 23513-15-7

Molecular Formula: C₂₁H₃₄O₄

Molecular Weight: 350.497

Accurate Mass: 350.24571

Percentage Composition: C 71.96%; H 9.78%; O 18.26%

Biological Source: Constit. of ginger, the rhizome of *Zingiber officinale*

Melting Point: Mp 45-46°

Optical Rotation: [α]_D +22.7 (c, 1.02 in CHCl₃)

>>Variant: (±)-form

CAS Registry Number: 77398-93-7

Molecular Formula: C₂₁H₃₄O₄

Molecular Weight: 350.497

Accurate Mass: 350.24571

Percentage Composition: C 71.96%; H 9.78%; O 18.26%

Physical Description: Solid (petrol)

Melting Point: Mp 44-45° (40°)

References:

- Cornell, D.W. *et al.*, *Aust. J. Chem.*, 1969, **22**, 1033-1043, (*isol, struct*)
Shogi, N. *et al.*, *J. Pharm. Sci.*, 1982, **71**, 1174-1175, (*isol, uv, pmr, cmr*)
Kato, N. *et al.*, *Chem. Pharm. Bull.*, 1984, **32**, 1679-1682, (*synth*)
Solladie, G. *et al.*, *J.O.C.*, 1993, **58**, 2181-2185, (*synth, pmr, cmr*)
Fleming, S.A. *et al.*, *Synth. Commun.*, 1999, **29**, 1933-1939, (*synth, pmr, cmr*)