>>**Entry Name: [8]-Gingerol**
Synonym(s): 5-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-3-dodecanone, 9Cl

CAS Registry Number: 107257-17-0

As [6]-Gingerol, HCV46-D with
n = 6

Molecular Formula: $C_{19}H_{30}O_4$
Molecular Weight: 322.444
Accurate Mass: 322.21441
Percentage Composition: C 70.77%; H 9.38%; O 19.85%

>>**Variant:** (*R*)-form

CAS Registry Number: 135272-33-2
Molecular Formula: $C_{19}H_{30}O_4$
Molecular Weight: 322.444
Accurate Mass: 322.21441
Percentage Composition: C 70.77%; H 9.38%; O 19.85%
Melting Point: Mp 35°
Optical Rotation: $[\alpha]_D^{25}$ –25.9 (c, 0.5 in $CHCl_3$)

>>**Variant:** (*S*)-form

CAS Registry Number: 23513-08-8

Molecular Formula: $C_{19}H_{30}O_4$
Molecular Weight: 322.444
Accurate Mass: 322.21441
Percentage Composition: C 70.77%; H 9.38%; O 19.85%
Biological Source: Constit. of ginger, the rhizome of *Zingiber officinale*
Biological Use/Importance: Exhibits cardiotonic activity
Melting Point: Mp 29-30°
Optical Rotation: $[\alpha]_D$ +26 (c, 0.9 in $CHCl_3$)

>>**Variant:** (±)-form

CAS Registry Number: 77398-92-6
Molecular Formula: $C_{19}H_{30}O_4$
Molecular Weight: 322.444
Accurate Mass: 322.21441
Percentage Composition: C 70.77%; H 9.38%; O 19.85%
Melting Point: Mp 32-34°

References:

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