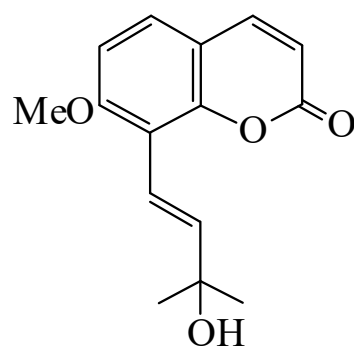




>>Entry Name: Murraol

ENTRY UNDER REVIEW

Synonym(s): 8-(3-Hydroxy-3-methyl-1-butenyl)-7-methoxy-2*H*-1-benzopyran-2-one. CM-c₂



CAS Registry Number: 109741-38-0

Molecular Formula: C₁₅H₁₆O₄

Molecular Weight: 260.289

Accurate Mass: 260.10486

Percentage Composition: C 69.22%; H 6.20%; O 24.59%

Biological Source: Constit. of *Cnidii monnieri* and *Murraya exotica*

Physical Description: Cryst. (dimorphic)

Melting Point: Mp 105-107°. Mp 138-141°

>>Derivative: Hydroperoxide

Synonym(s): Peroxymurraol

CAS Registry Number: 121994-13-6

Molecular Formula: C₁₅H₁₆O₅

Molecular Weight: 276.288

Accurate Mass: 276.099775

Percentage Composition: C 65.21%; H 5.84%; O 28.95%

Biological Source: Constit. of *Murraya exotica*

Physical Description: Oil

Other Data: Has -OOH replacing -OH. The name Peroxymurraol is somewhat misleading

References:

- Yamahara, J. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 1676, (*isol*)
Ito, C. *et al.*, *Heterocycles*, 1987, **26**, 1731, (*isol*)
Reisch, J. *et al.*, *Annalen*, 1988, 543, (*synth*)
Ito, C. *et al.*, *Chem. Pharm. Bull.*, 1989, **37**, 819, (*Peroxymurraol*)
Murray, R.D.H. *et al.*, *Phytochemistry*, 1989, **28**, 227, (*synth*)