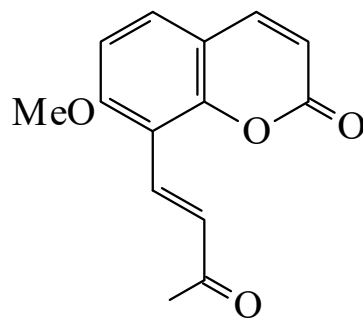




>>Entry Name: **Osthenone**

Synonym(s): 7-Methoxy-8-(3-oxo-1-butenyl)-2*H*-1-benzopyran-2-one, 9CI



Molecular Formula: C₁₄H₁₂O₄

Molecular Weight: 244.246

Accurate Mass: 244.07356

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

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

CAS Registry Number: 112789-90-9

Molecular Formula: C₁₄H₁₂O₄

Molecular Weight: 244.246

Accurate Mass: 244.07356

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Biological Source: Constit. of *Murraya exotica* and *Citrus* spp.

Physical Description: Prisms (Et₂O)

Melting Point: Mp 134-136°

>>**Derivative:** 1',2'-Dihydro

Synonym(s): Hassanone

CAS Registry Number: 119179-10-1

Molecular Formula: C₁₄H₁₄O₄

Molecular Weight: 246.262

Accurate Mass: 246.08921

Percentage Composition: C 68.28%; H 5.73%; O 25.99%

Biological Source: Constit. of a *Citrus* hybrid

Physical Description: Prisms (EtOAc)

Melting Point: Mp 132-134°

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

CAS Registry Number: 112606-76-5

Molecular Formula: C₁₄H₁₂O₄

Molecular Weight: 244.246

Accurate Mass: 244.07356

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Biological Source: Constit. of *Murraya paniculata*

Physical Description: Oil

References:

Ito, C. *et al.*, *Chem. Pharm. Bull.*, 1987, **35**, 4277, (*E*-form)

Ito, C. *et al.*, *Heterocycles*, 1987, **26**, 2959, (*Z*-form)

Ito, C. *et al.*, *Chem. Pharm. Bull.*, 1988, **36**, 3805, (*Hassanone*)

Ju-ichi, M. *et al.*, *Heterocycles*, 1988, **27**, 2197, (*E*-form)

Ito, C. *et al.*, *Chem. Pharm. Bull.*, 1990, **38**, 2102, (*synth*)