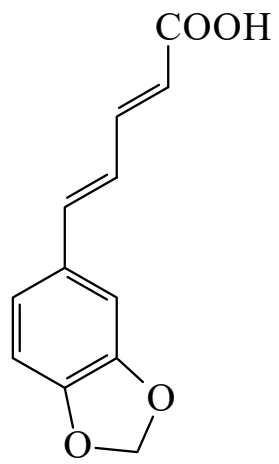
>>**Entry Name: 5-(3,4-Methylenedioxyphenyl)-2,4-pentadienoic acid**
Synonym(s): 5-(1,3-Benzenedioxol-5-yl)-2,4-pentadienoic acid, 9CI. **Piperic acid,** 8CI**.** Piperinic acid. Piperonic acid



(*E*,*E*)-*form*

CAS Registry Number: 5285-18-7

Molecular Formula: $C_{12}H_{10}O_4$
Molecular Weight: 218.209
Accurate Mass: 218.05791
Percentage Composition: C 66.05%; H 4.62%; O 29.33%
Biological Source: Obt. from black pepper (*Piper nigrum*), from *Minthostachys verticillata, Mentha piperita* and others

Rare Chemicals Library: S88048-5

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

CAS Registry Number: 136-72-1
Molecular Formula: $C_{12}H_{10}O_4$
Molecular Weight: 218.209
Accurate Mass: 218.05791
Percentage Composition: C 66.05%; H 4.62%; O 29.33%
Physical Description: Needles (EtOH)
Melting Point: Mp 216°
pKa Value: pK_a 5.7 (50% MeOH aq.)

>>**Derivative:** Me ester

CAS Registry Number: 6190-46-1

Molecular Formula: $C_{13}H_{12}O_4$
Molecular Weight: 232.235
Accurate Mass: 232.07356
Percentage Composition: C 67.23%; H 5.21%; O 27.56%
Biological Source: Constit. of *Piper* spp.
Physical Description: Yellow plates (MeOH)
Melting Point: Mp 146°

>>**Variant:** (2*E*,4*Z*)-form
Synonym(s): Isochavicinic acid. Isochavicic acid

CAS Registry Number: 495-87-4
Molecular Formula: $C_{12}H_{10}O_4$
Molecular Weight: 218.209
Accurate Mass: 218.05791
Percentage Composition: C 66.05%; H 4.62%; O 29.33%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 143°
pKa Value: pK_a 5.5 (50% MeOH aq.)

>>**Variant:** (2*Z*,4*E*)-form
Synonym(s): Isopiperinic acid

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