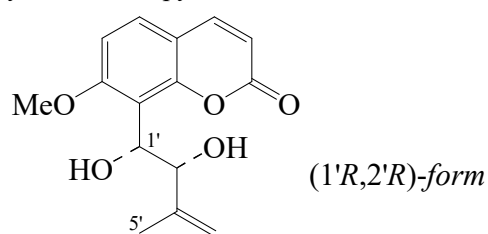




>>Entry Name: Murrangatin

Synonym(s): 8-(1,2-Dihydroxy-3-methyl-3-butenyl)-7-methoxy-2*H*-1-benzopyran-2-one



CAS Registry Number: 37126-91-3

Related CAS Registry Numbers(s): 6432-67-3 106975-21-7 109273-96-3 124988-29-0

Molecular Formula: C<sub>15</sub>H<sub>16</sub>O<sub>5</sub>

Molecular Weight: 276.288

Accurate Mass: 276.099775

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

>>Variant: (1'*R*,2'*R*)-form

Molecular Formula: C<sub>15</sub>H<sub>16</sub>O<sub>5</sub>

Molecular Weight: 276.288

Accurate Mass: 276.099775

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

Biological Source: Constit. of the leaves of *Murraya elongata* and *Murraya paniculata* and found as various esters

Physical Description: Needles (Et<sub>2</sub>O/CHCl<sub>3</sub>)

Melting Point: Mp 133°

Optical Rotation: [α]<sub>D</sub> −3 (c, 0.49 in CHCl<sub>3</sub>)

Other Data: Abs. config. revised in 1990 but not recognised in CA (1996)

>>Derivative: 1'-*O*-Ac

CAS Registry Number: 114609-82-4

Molecular Formula: C<sub>17</sub>H<sub>18</sub>O<sub>6</sub>

Molecular Weight: 318.326

Accurate Mass: 318.11034

Percentage Composition: C 64.14%; H 5.70%; O 30.16%

Biological Source: Constit. of *Phebalium phyllicifolium*

>>Derivative: 2'-*O*-Ac

Synonym(s): Murrangatin acetate

CAS Registry Number: 112667-49-9

Molecular Formula: C<sub>17</sub>H<sub>18</sub>O<sub>6</sub>

Molecular Weight: 318.326

Accurate Mass: 318.11034

Percentage Composition: C 64.14%; H 5.70%; O 30.16%

Biological Source: Constit. of *Murraya exotica*

Physical Description: Oil

Optical Rotation: [α]<sub>D</sub> −6.3 (c, 0.08 in CHCl<sub>3</sub>)

>>Derivative: 2'-*O*-(3-Methylbutanoyl)

Synonym(s): Murrangatin isovalerate

CAS Registry Number: 131652-30-7

Molecular Formula: C<sub>20</sub>H<sub>24</sub>O<sub>6</sub>

Molecular Weight: 360.406

Accurate Mass: 360.15729

Percentage Composition: C 66.65%; H 6.71%; O 26.64%

Biological Source: Constit. of *Murraya paniculata*

Physical Description: Prisms (Et<sub>2</sub>O)

Melting Point: Mp 100-103°

Optical Rotation: [α]<sub>D</sub> −2.97 (c, 0.1 in CHCl<sub>3</sub>)