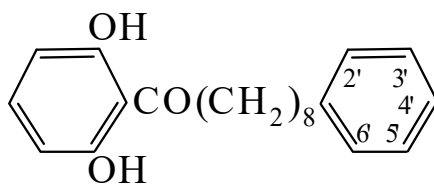




>>Entry Name: **Malabaricone A**

**Synonym(s):** 1-(2,6-Dihydroxyphenyl)-9-phenyl-1-nonanone, 9Cl



**CAS Registry Number:** 63335-23-9

**Molecular Formula:** C<sub>21</sub>H<sub>26</sub>O<sub>3</sub>

**Molecular Weight:** 326.435

**Accurate Mass:** 326.188195

**Percentage Composition:** C 77.27%; H 8.03%; O 14.70%

**Biological Source:** Constit. of *Myristica malabarica* fruit rind

**Physical Description:** Yellow cryst. (Et<sub>2</sub>O/hexane)

**Melting Point:** Mp 81-82°

>>Derivative: 4'-Hydroxy

**Synonym(s):** 1-(2,6-Dihydroxyphenyl)-9-(4-hydroxyphenyl)-1-nonanone, 9Cl. **Malabaricone B**

**CAS Registry Number:** 63335-24-0

**Molecular Formula:** C<sub>21</sub>H<sub>26</sub>O<sub>4</sub>

**Molecular Weight:** 342.434

**Accurate Mass:** 342.18311

**Percentage Composition:** C 73.66%; H 7.65%; O 18.69%

**Biological Source:** Constit. of *Myristica malabarica*

**Physical Description:** Cryst. (C<sub>6</sub>H<sub>6</sub>)

**Melting Point:** Mp 102°. Mp 133-135°

**UV:** [neutral] λ<sub>max</sub> 224 (ε 15000); 272 (ε 11300); 342 (ε 2600) (MeOH) (Berdy) [base] λ<sub>max</sub> 240 (); 286 (); 384 () (MeOH-NAOH) (Berdy) [neutral] λ<sub>max</sub> 203 (ε 12590); 224 (ε 15850); 270 (ε 7940); 341 (ε 1995) (MeOH) (Berdy)

>>Derivative: 3',4'-Dihydroxy

**Synonym(s):** 1-(2,6-Dihydroxyphenyl)-9-(3,4-dihydroxyphenyl)-1-nonanone, 9Cl. **Malabaricone C**

**CAS Registry Number:** 63335-25-1

**Molecular Formula:** C<sub>21</sub>H<sub>26</sub>O<sub>5</sub>

**Molecular Weight:** 358.433

**Accurate Mass:** 358.178025

**Percentage Composition:** C 70.37%; H 7.31%; O 22.32%

**Biological Source:** Constit. of *Myristica malabarica*

**Use/Importance:** Shows nematocidal, bactericidal and antioxidant activity

**Physical Description:** Pale-yellow cryst. (CHCl<sub>3</sub>)

**Melting Point:** Mp 127-128°

>>Derivative: 3',4'-(Methylenedioxy)

**Synonym(s):** 9-(1,3-Benzodioxol-5-yl)-1-(2,6-dihydroxyphenyl)-1-nonanone, 9Cl. 1-(2,6-Dihydroxyphenyl)-9-(3,4-methylenedioxyphenyl)-1-nonanone. **Malabaricone D**

**CAS Registry Number:** 63335-26-2

**Molecular Formula:** C<sub>22</sub>H<sub>26</sub>O<sub>5</sub>

**Molecular Weight:** 370.444

**Accurate Mass:** 370.178025

**Percentage Composition:** C 71.33%; H 7.07%; O 21.59%

**Biological Source:** Constit. of *Myristica malabarica*

**Physical Description:** Cryst. (C<sub>6</sub>H<sub>6</sub>/hexane)

**Melting Point:** Mp 90-91°

>>Derivative: 3',4'-(Methylenedioxy), 2-Me ether

**Synonym(s):** 1-(2-Hydroxy-6-methoxyphenyl)-9-(3,4-methylenedioxyphenyl)-1-nonanone

**CAS Registry Number:** 114226-25-4