



**CAS Registry Number:** 82958-45-0

**Molecular Formula:** C<sub>21</sub>H<sub>20</sub>O<sub>13</sub>

**Molecular Weight:** 480.381

**Accurate Mass:** 480.090395

**Percentage Composition:** C 52.51%; H 4.20%; O 43.30%

**Biological Source:** Isol. from the bark of *Mallotus japonicus* and from the root of *Bergenia purpurascens*

**Physical Description:** Light brown amorph. powder + 1H<sub>2</sub>O

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>15</sup> -51 (c, 1.0 in MeOH)

>> **Derivative:** 11-*O*-(3,4,5-Trihydroxybenzoyl)

**Synonym(s):** 11-*O*-Galloylbergenin

**CAS Registry Number:** 82958-44-9

**Molecular Formula:** C<sub>21</sub>H<sub>20</sub>O<sub>13</sub>

**Molecular Weight:** 480.381

**Accurate Mass:** 480.090395

**Percentage Composition:** C 52.51%; H 4.20%; O 43.30%

**Biological Source:** Isol. from the bark of *Mallotus japonicus* and from the root of *Bergenia purpurascens* and heartwood of *Peltophorum africanum*

**Physical Description:** Fine needles (EtOH aq.)

**Melting Point:** Mp 188-190° (179° dec.)

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>15</sup> +37.6 (c, 1.2 in EtOH)

>> **Derivative:** 11-*O*-(3-Hydroxy-4,5-dimethoxybenzoyl)

**Synonym(s):** 11-*O*-(3,4-Di-*O*-methylgalloyl)bergenin

**CAS Registry Number:** 167962-94-9

**Molecular Formula:** C<sub>23</sub>H<sub>24</sub>O<sub>13</sub>

**Molecular Weight:** 508.435

**Accurate Mass:** 508.121695

**Percentage Composition:** C 54.33%; H 4.76%; O 40.91%

**Biological Source:** Constit. of the root of *Ardisia crenata*

>> **Derivative:** 11-*O*-(4-Hydroxy-3,5-dimethoxybenzoyl)

**Synonym(s):** 11-*O*-Syringoylbergenin

**CAS Registry Number:** 126485-47-0

**Molecular Formula:** C<sub>23</sub>H<sub>24</sub>O<sub>13</sub>

**Molecular Weight:** 508.435

**Accurate Mass:** 508.121695

**Percentage Composition:** C 54.33%; H 4.76%; O 40.91%

**Biological Source:** Constit. of the root of *Ardisia crenata*

>> **Derivative:** 3,4-Bis-*O*-(3,4,5-trihydroxybenzoyl)

**Synonym(s):** 3,4-Di-*O*-galloylbergenin

**CAS Registry Number:** 128308-97-4

**Molecular Formula:** C<sub>28</sub>H<sub>24</sub>O<sub>17</sub>

**Molecular Weight:** 632.487

**Accurate Mass:** 632.101355

**Percentage Composition:** C 53.17%; H 3.82%; O 43.00%

**Biological Source:** Isol. from the bark and leaf of *Mallotus japonicus*

**Physical Description:** Amorph. powder + ½H<sub>2</sub>O

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>23</sup> -137.7 (c, 0.5 in MeOH)