



>>Derivative: Me ester

**CAS Registry Number:** 35909-92-3

**Molecular Formula:** C<sub>18</sub>H<sub>19</sub>NO<sub>4</sub>

**Molecular Weight:** 313.352

**Accurate Mass:** 313.131409

**Percentage Composition:** C 69.00%; H 6.11%; N 4.47%; O 20.42%

**Physical Description:** Oil

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> −16 (c, 1.6 in MeOH)

>>Derivative: 4-Nitrophenyl ester

**CAS Registry Number:** 2578-84-9

**Molecular Formula:** C<sub>23</sub>H<sub>20</sub>N<sub>2</sub>O<sub>6</sub>

**Molecular Weight:** 420.421

**Accurate Mass:** 420.132138

**Percentage Composition:** C 65.71%; H 4.79%; N 6.66%; O 22.83%

**Melting Point:** Mp 126.5-127.5°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> −8.9 (c, 2.2 in EtOAc)

**Sigma:** C4627

>>Derivative: 2,4,5-Trichlorophenyl ester

**CAS Registry Number:** 3065-27-8

**Molecular Formula:** C<sub>23</sub>H<sub>18</sub>Cl<sub>3</sub>NO<sub>4</sub>

**Molecular Weight:** 478.758

**Accurate Mass:** 477.03014

**Percentage Composition:** C 57.70%; H 3.79%; Cl 22.22%; N 2.93%; O 13.37%

**Melting Point:** Mp 140-141°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> −40.1 (c, 1 in DMF)

>>Derivative: Pentachlorophenyl ester

**CAS Registry Number:** 3086-21-3

**Molecular Formula:** C<sub>23</sub>H<sub>16</sub>Cl<sub>5</sub>NO<sub>4</sub>

**Molecular Weight:** 547.647

**Accurate Mass:** 544.952194

**Percentage Composition:** C 50.44%; H 2.94%; Cl 32.37%; N 2.56%; O 11.69%

**Melting Point:** Mp 154-155°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> −49.5 (c, 1 in DMF)

>>Derivative: Succinimido ester

**CAS Registry Number:** 3397-32-8

**Molecular Formula:** C<sub>21</sub>H<sub>20</sub>N<sub>2</sub>O<sub>6</sub>

**Molecular Weight:** 396.399

**Accurate Mass:** 396.132138

**Percentage Composition:** C 63.63%; H 5.09%; N 7.07%; O 24.22%

**Melting Point:** Mp 140-140.5°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> −17.3 (c, 2 in dioxan)

>>Derivative: Amide

**Synonym(s):** Z-PheNH<sub>2</sub>

**CAS Registry Number:** 4801-80-3

**Molecular Formula:** C<sub>17</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 298.341

**Accurate Mass:** 298.131743

**Percentage Composition:** C 68.44%; H 6.08%; N 9.39%; O 16.09%

**Melting Point:** Mp 164-165°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> −6.8 (c, 1 in MeOH)