



**>>Entry Name: (Diphenylmethyleimino)acetic acid**

**Synonym(s):** *N*-(Diphenylmethylene)glycine, 9CI

**CAS Registry Number:** 136059-92-2

**Related CAS Registry Numbers(s):** 119244-11-0 119244-12-1 119244-13-2

Ph2C=NCH2COOH

**Molecular Formula:** C<sub>15</sub>H<sub>13</sub>NO<sub>2</sub>

**Molecular Weight:** 239.273

**Accurate Mass:** 239.094629

**Percentage Composition:** C 75.30%; H 5.48%; N 5.85%; O 13.37%

**Use/Importance:** Used to prepare amino acids via phase-transfer alkylations

**>>Derivative:** Me ester

**CAS Registry Number:** 81167-39-7

**Molecular Formula:** C<sub>16</sub>H<sub>15</sub>NO<sub>2</sub>

**Molecular Weight:** 253.3

**Accurate Mass:** 253.110279

**Percentage Composition:** C 75.87%; H 5.97%; N 5.53%; O 12.63%

**Melting Point:** Mp 42.5-43°

**>>Derivative:** Et ester

**CAS Registry Number:** 69555-14-2

**Molecular Formula:** C<sub>17</sub>H<sub>17</sub>NO<sub>2</sub>

**Molecular Weight:** 267.327

**Accurate Mass:** 267.125929

**Percentage Composition:** C 76.38%; H 6.41%; N 5.24%; O 11.97%

**Use/Importance:** Intermed. for the synth. of amino acids by selective mono- and dialkylation on the α-methylene

**Melting Point:** Mp 51-53°

**pKa Value:** p*K*<sub>a</sub> 18.7 (DMSO)

**Aldrich:** 22254-2

**Fluka:** 43121

**Sigma:** D1519

**>>Derivative:** *tert*-Butyl ester

**CAS Registry Number:** 81477-94-3

**Molecular Formula:** C<sub>19</sub>H<sub>21</sub>NO<sub>2</sub>

**Molecular Weight:** 295.38

**Accurate Mass:** 295.157229

**Percentage Composition:** C 77.26%; H 7.17%; N 4.74%; O 10.83%

**Melting Point:** Mp 114-115° (111-112°)

**Aldrich:** 36448-7

**>>Derivative:** Benzyl ester

**CAS Registry Number:** 81477-91-0

**Molecular Formula:** C<sub>22</sub>H<sub>19</sub>NO<sub>2</sub>

**Molecular Weight:** 329.398

**Accurate Mass:** 329.141579

**Percentage Composition:** C 80.22%; H 5.81%; N 4.25%; O 9.71%

**Melting Point:** Mp 91-92° (86.5-87°)

**>>Derivative:** Nitrile

**Synonym(s):** [(Diphenylmethylene)amino]acetonitrile, 9CI

**CAS Registry Number:** 70591-20-7

**Molecular Formula:** C<sub>15</sub>H<sub>12</sub>N<sub>2</sub>

**Molecular Weight:** 220.273

**Accurate Mass:** 220.100048

**Percentage Composition:** C 81.79%; H 5.49%; N 12.72%

**Melting Point:** Mp 84-85° (81-82°)

**Aldrich:** 25265-4

**Sigma:** D7523

**References:**