>>**Entry Name: (Diphenylmethyleneimino)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
$Ph_2C{=}NCH_2COOH$

Molecular Formula: $C_{15}H_{13}NO_2$
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: $C_{16}H_{15}NO_2$
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: $C_{17}H_{17}NO_2$
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: pK_a 18.7 (DMSO)
Aldrich: 22254-2
Fluka: 43121
Sigma: D1519

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

CAS Registry Number: 81477-94-3
Molecular Formula: $C_{19}H_{21}NO_2$
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: $C_{22}H_{19}NO_2$
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: $C_{15}H_{12}N_2$
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:

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