>>**Entry Name: Benzamide**

CAS Registry Number: 55-21-0

$PhCONH_2$

Molecular Formula: C_7H_7NO
Molecular Weight: 121.138
Accurate Mass: 121.052764
Percentage Composition: C 69.41%; H 5.82%; N 11.56%; O 13.21%
Biological Source: Isol. from the leaves of *Homalium foetidum*
Physical Description: Plates (H_2O)
Melting Point: Mp 130°
Boiling Point: Bp 288° part. dec.
Solubility: Spar. sol. H_2O, Et_2O; sol. EtOH
pKa Value: pK_a 13.5 (25°,as acid) pK_a –2.16 (25°,as base)
Hazard & Toxicity: LD_{50} (mus, orl) 1160 mg/kg

Aldrich: 13582-8
Fluka: 12070
Sigma: B2009

>>**Derivative:** *N*-Ac
Synonym(s): *N*-Acetylbenzamide, 9CI. *N*-Benzoylacetamide

CAS Registry Number: 1575-95-7
Molecular Formula: $C_9H_9NO_2$
Molecular Weight: 163.176
Accurate Mass: 163.063329
Percentage Composition: C 66.25%; H 5.56%; N 8.58%; O 19.61%
Physical Description: Cryst.
Melting Point: Mp 120° (115°)

>>**Derivative:** *N*-Benzoyl
see Dibenzamide, DXQ15-T

>>**Derivative:** *N*,*N*-Dibenzoyl
see Tribenzamide, BJB92-B

>>**Derivative:** *N*-Chloro
Synonym(s): *N*-Chlorobenzamide, 9CI

CAS Registry Number: 1821-34-7

Molecular Formula: C_7H_6ClNO
Molecular Weight: 155.583
Accurate Mass: 155.013791
Percentage Composition: C 54.04%; H 3.89%; Cl 22.79%; N 9.00%; O 10.28%
Use/Importance: Used as titrant (0.033*M* aq. soln.) for potentiometric detn. of reductants (e.g. As(*III*), $I^{(-)}$, $SO_3^{2(-)}$, $S_2O_3^{2(-)}$)
Physical Description: Cryst. (H_2O)
Melting Point: Mp 116°
Solubility: Sol. H_2O

>>**Derivative:** *N*-Bromo

CAS Registry Number: 19964-97-7
Molecular Formula: C_7H_6BrNO
Molecular Weight: 200.034
Accurate Mass: 198.983275
Percentage Composition: C 42.03%; H 3.02%; Br 39.95%; N 7.00%; O 8.00%
Physical Description: Plates (C_6H_6)
Melting Point: Mp 129-131°

>>**Derivative:** *N*-Me