



>>Entry Name: Benzamide

CAS Registry Number: 55-21-0

PhCONH₂

Molecular Formula: C₇H₇NO

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 (H₂O)

Melting Point: Mp 130°

Boiling Point: Bp 288° part. dec.

Solubility: Spar. sol. H₂O, Et₂O; sol. EtOH

pKa Value: pK_a 13.5 (25°, as acid) pK_a -2.16 (25°, as base)

Hazard & Toxicity: LD₅₀ (mus, orl) 1160 mg/kg

Aldrich: 13582-8

Fluka: 12070

Sigma: B2009

>>Derivative: *N*-Ac

Synonym(s): *N*-Acetylbenzamide, 9Cl. *N*-Benzoylacetamide

CAS Registry Number: 1575-95-7

Molecular Formula: C₉H₉NO₂

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, 9Cl

CAS Registry Number: 1821-34-7

Molecular Formula: C₇H₆ClNO

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⁽⁻⁾, SO₃²⁽⁻⁾, S₂O₃²⁽⁻⁾)

Physical Description: Cryst. (H₂O)

Melting Point: Mp 116°

Solubility: Sol. H₂O

>>Derivative: *N*-Bromo

CAS Registry Number: 19964-97-7

Molecular Formula: C₇H₆BrNO

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 (C₆H₆)

Melting Point: Mp 129-131°

>>Derivative: *N*-Me