



Percentage Composition: C 54.04%; H 3.89%; Cl 22.79%; N 9.00%; O 10.28%

Physical Description: Yellow cryst.

Melting Point: Mp 31°

Boiling Point: Bp₁₂ 120°

>> **Derivative:** Amide

CAS Registry Number: 2835-68-9

Molecular Formula: C₇H₈N₂O

Molecular Weight: 136.153

Accurate Mass: 136.063663

Percentage Composition: C 61.75%; H 5.92%; N 20.57%; O 11.75%

Physical Description: Light yellow cryst. + ½H₂O

Melting Point: Mp 183°

Aldrich: 28457-2

Sigma: A1658

>> **Derivative:** Anilide

Synonym(s): 4-Amino-*N*-phenylbenzamide

CAS Registry Number: 782-45-6

Molecular Formula: C₁₃H₁₂N₂O

Molecular Weight: 212.251

Accurate Mass: 212.094963

Percentage Composition: C 73.57%; H 5.70%; N 13.20%; O 7.54%

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 138-140°

pKa Value: pK_a 2.94 (23°, 1.6% MeCN aq.)

>> **Derivative:** Hydrazide

CAS Registry Number: 5351-17-7

Molecular Formula: C₇H₉N₃O

Molecular Weight: 151.168

Accurate Mass: 151.074562

Percentage Composition: C 55.62%; H 6.00%; N 27.80%; O 10.58%

Use/Importance: Monomer for polyhydrazides

Melting Point: Mp 225-227°

Aldrich: A4190-9

Sigma: A0890

>> **Derivative:** Nitrile

Synonym(s): 4-Aminobenzonitrile, 9Cl. *p*-Cyanoaniline

CAS Registry Number: 873-74-5

Molecular Formula: C₇H₆N₂

Molecular Weight: 118.138

Accurate Mass: 118.053098

Percentage Composition: C 71.17%; H 5.12%; N 23.71%

Physical Description: Prisms

Melting Point: Mp 86°

pKa Value: pK_a 1.71 (25°, H₂O)

Hazard & Toxicity: LD₅₀ (mus, orl) 650 mg/kg

Aldrich: 14775-3

Fluka: 7010