



>>Entry Name: 4-Fluoroaniline

Synonym(s): 4-Fluorobenzenamine, 9CI

CAS Registry Number: 371-40-4

Structure by analogy with 2-Fluoroaniline, [DTM13-V](#)

Molecular Formula: C₆H₆FN

Molecular Weight: 111.118

Accurate Mass: 111.048427

Percentage Composition: C 64.86%; H 5.44%; F 17.10%; N 12.61%

Melting Point: Mp -0.82°

Boiling Point: Bp 184-186°. Bp₁₉ 85°

Density: d₄²⁰ 1.17

pKa Value: pK_a 4.61 (25°, 1% EtOH)

Hazard & Toxicity: Severe skin and eye irritant. LD₅₀ (rat, orl) 417 mg/kg

Aldrich: F380-0

Fluka: 46490

Sigma: F8125

Supelco: 44-2415

>>Derivative: Hydrochloride

CAS Registry Number: 2146-07-8

Boiling Point: Bp₂₇ 167°

Rare Chemicals Library: S41419-0

>>Derivative: *N*-Ac

Synonym(s): *p*-Fluoroacetanilide

CAS Registry Number: 351-83-7

Molecular Formula: C₈H₈FNO

Molecular Weight: 153.156

Accurate Mass: 153.058992

Percentage Composition: C 62.74%; H 5.26%; F 12.40%; N 9.15%; O 10.45%

Melting Point: Mp 152°

Aldrich: 34400-1

Rare Chemicals Library: S39707-5

>>Derivative: *N*-Chloroacetyl

Synonym(s): 2-Chloro-4'-fluoroacetanilide

CAS Registry Number: 351-04-2

Molecular Formula: C₈H₇ClFNO

Molecular Weight: 187.6

Accurate Mass: 187.020019

Percentage Composition: C 51.22%; H 3.76%; Cl 18.90%; F 10.13%; N 7.47%; O 8.53%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 131-133° (129-130°)

>>Derivative: *N*-Benzoyl

Synonym(s): *p*-Fluorobenzanilide

CAS Registry Number: 366-75-6

Molecular Formula: C₁₃H₁₀FNO

Molecular Weight: 215.226

Accurate Mass: 215.074642

Percentage Composition: C 72.55%; H 4.68%; F 8.83%; N 6.51%; O 7.43%

Melting Point: Mp 185°