>>**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: C_6H_6FN
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°. Bp_{19} 85°
Density: d_4^{20}1.17
pKa Value: pK_a 4.61 (25°, 1% EtOH)
Hazard & Toxicity: Severe skin and eye irritant. LD_{50} (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: Bp_{27} 167°
Rare Chemicals Library: S41419-0

>>**Derivative:** *N*-Ac
Synonym(s): *p*-Fluoroacetanilide

CAS Registry Number: 351-83-7
Molecular Formula: C_8H_8FNO
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: C_8H_7ClFNO
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: $C_{13}H_{10}FNO$
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°