



>>Entry Name: 4-Fluorophenylacetic acid

Synonym(s): 4-Fluorobenzeneacetic acid, *p*-Fluoro- α -toluic acid

CAS Registry Number: 405-50-5

Structure by analogy with 2-Fluorophenylacetic acid, [FGJ09-S](#)

Molecular Formula: C₈H₇FO₂

Molecular Weight: 154.14

Accurate Mass: 154.043008

Percentage Composition: C 62.34%; H 4.58%; F 12.33%; O 20.76%

Physical Description: Leaves (H₂O)

Melting Point: Mp 86°

Boiling Point: Bp₂ 164°

pKa Value: p*K*_a 4.25 (25°, H₂O)

Aldrich: F1330-4

Fluka: 47350

Sigma: F4501

>>Derivative: Me ester

CAS Registry Number: 34837-84-8

Molecular Formula: C₉H₉FO₂

Molecular Weight: 168.167

Accurate Mass: 168.058658

Percentage Composition: C 64.28%; H 5.39%; F 11.30%; O 19.03%

Melting Point: Mp 84-85°

>>Derivative: Et ester

CAS Registry Number: 587-88-2

Molecular Formula: C₁₀H₁₁FO₂

Molecular Weight: 182.194

Accurate Mass: 182.074308

Percentage Composition: C 65.92%; H 6.09%; F 10.43%; O 17.56%

Physical Description: Cryst. (petrol)

Melting Point: Mp 34°

Boiling Point: Bp₃₁ 128-130°

>>Derivative: Chloride

CAS Registry Number: 459-04-1

Molecular Formula: C₈H₆ClFO

Molecular Weight: 172.586

Accurate Mass: 172.00912

Percentage Composition: C 55.68%; H 3.50%; Cl 20.54%; F 11.01%; O 9.27%

Boiling Point: Bp 202-204°. Bp₁₂ 102-104°

Aldrich: 46695-6

>>Derivative: Amide

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%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 163-164°