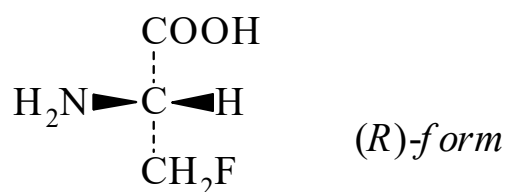




>>Entry Name: 2-Amino-3-fluoropropanoic acid

Synonym(s): 3-Fluoroalanine



CAS Registry Number: 43163-93-5

Molecular Formula: C₃H₆FNO₂

Molecular Weight: 107.084

Accurate Mass: 107.038257

Percentage Composition: C 33.65%; H 5.65%; F 17.74%; N 13.08%; O 29.88%

>>Variant: (R)-form

Synonym(s): L-form

CAS Registry Number: 35455-21-1

Molecular Formula: C₃H₆FNO₂

Molecular Weight: 107.084

Accurate Mass: 107.038257

Percentage Composition: C 33.65%; H 5.65%; F 17.74%; N 13.08%; O 29.88%

Melting Point: Mp 167-168°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +10$ (c, 6 1M HCl)

>>Variant: (S)-form

Synonym(s): D-form

CAS Registry Number: 35455-20-0

Molecular Formula: C₃H₆FNO₂

Molecular Weight: 107.084

Accurate Mass: 107.038257

Percentage Composition: C 33.65%; H 5.65%; F 17.74%; N 13.08%; O 29.88%

Melting Point: Mp 168 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -10$ (c, 6 in 1M HCl)

>>Derivative: 2-Deutero compd.

Synonym(s): Fludalanine, INN, USAN, DFA, MK 641

CAS Registry Number: 35523-45-6

Molecular Formula: C₃H₅DFNO₂

Molecular Weight: 108.09

Use/Importance: Antibacterial agent

Physical Description: Cryst.

Development Status: Never marketed

Melting Point: Mp 174-175°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -10.4$ (c, 6 in 1M HCl)

Calculated Log P Data: Log P -3.45 (calc)

>>Variant: (±)-form

CAS Registry Number: 16652-37-2

Molecular Formula: C₃H₆FNO₂

Molecular Weight: 107.084

Accurate Mass: 107.038257

Percentage Composition: C 33.65%; H 5.65%; F 17.74%; N 13.08%; O 29.88%

Melting Point: Mp 152 dec.°

>>Derivative: Hydrochloride

CAS Registry Number: 867-84-5

Melting Point: Mp 228-230 dec.°

References: