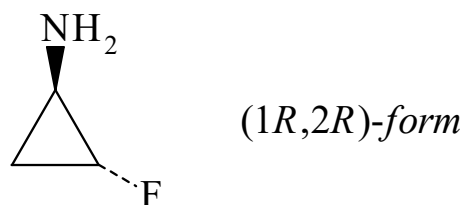




>>Entry Name: 2-Fluorocyclopropylamine

Synonym(s): 2-Fluorocyclopropanamine, 9CI. 1-Amino-2-fluorocyclopropane



CAS Registry Number: 105919-31-1

Related CAS Registry Numbers(s): 114152-95-3 114152-96-4 143062-83-3 175776-12-2

Molecular Formula: C₃H₆FN

Molecular Weight: 75.085

Accurate Mass: 75.048427

Percentage Composition: C 47.99%; H 8.05%; F 25.30%; N 18.65%

>>Variant: (1*R*,2*R*)-form

Synonym(s): (–)(HCl)-*trans*-form

CAS Registry Number: 143062-85-5

Molecular Formula: C₃H₆FN

Molecular Weight: 75.085

Accurate Mass: 75.048427

Percentage Composition: C 47.99%; H 8.05%; F 25.30%; N 18.65%

Physical Description: Cryst. (EtOH/Et₂O) (as hydrochloride)

Melting Point: Mp 131-134 dec.° (hydrochloride)

Optical Rotation: $[\alpha]_{\text{D}}^{20}$ –14.2 (c, 0.604 in EtOH)

Other Data: CAS no. refers to hydrochloride

>>Variant: (1*R*,2*S*)-form

Synonym(s): (–)(HCl)-*cis*-form

CAS Registry Number: 141042-21-9

Molecular Formula: C₃H₆FN

Molecular Weight: 75.085

Accurate Mass: 75.048427

Percentage Composition: C 47.99%; H 8.05%; F 25.30%; N 18.65%

Physical Description: Cryst. (EtOH/Et₂O) (as hydrochloride)

Melting Point: Mp 96-100° (hydrochloride). Mp 153-157 dec.° (hydrochloride)

Optical Rotation: $[\alpha]_{\text{D}}^{20}$ –19 (c, 0.738 in EtOH) (96% ee)

Other Data: May be dimorphic. CAS no. refers to hydrochloride

>>Derivative: 4-Methylbenzenesulfonyl

CAS Registry Number: 143062-84-4

Physical Description: Cryst. (toluene)

Melting Point: Mp 168.5-170.5 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20}$ –8.9 (c, 0.699 in MeOH) (94% ee)

>>Variant: (1*R*,2*R*)-form

Synonym(s): (±)-*trans*-form

CAS Registry Number: 143062-74-2

Molecular Formula: C₃H₆FN

Molecular Weight: 75.085

Accurate Mass: 75.048427

Percentage Composition: C 47.99%; H 8.05%; F 25.30%; N 18.65%

Physical Description: Cryst. (MeOH/Et₂O) (as hydrochloride)

Melting Point: Mp 99-102.5 dec.° (hydrochloride)

Other Data: CAS no. refers to hydrochloride