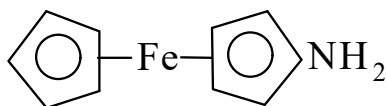




>>Entry Name: Aminoferrocene, 9Cl

Synonym(s): Ferrocenylamine, 8Cl



CAS Registry Number: 1273-82-1

Molecular Formula: $C_{10}H_{11}FeN$

Molecular Weight: 201.051

Accurate Mass: 201.024088

Percentage Composition: C 59.74%; H 5.51%; Fe 27.78%; N 6.97%

Source/Synthesis: Synth. from $FcLi$ and *O*-benzylhydroxylamine or from $CpFe(C_5H_4B(OH)_2)$ and copper phthalimide, followed by treatment of the *N*-ferrocenylphthalimide obt. with N_2H_4

Physical Description: Yellow cryst., air-sensitive in soln.

Melting Point: Mp 153-155° (145-153°)

Solubility: Sol. common org. solvs., dec. by aq. HCl

>>Derivative: *N*-Formyl

Synonym(s): (Formylamino)ferrocene, 12Cl

CAS Registry Number: 118805-87-1

Molecular Formula: $C_{11}H_{11}FeNO$

Molecular Weight: 229.061

Accurate Mass: 229.019003

Percentage Composition: C 57.68%; H 4.84%; Fe 24.38%; N 6.11%; O 6.98%

Source/Synthesis: Synth. from $FcNH_2 + HCOOEt$

Physical Description: Orange solid (Et_2O)

Melting Point: Mp 88-90°

Other Data: Exists in soln. as an equil. mixt. of 2 rotational isomers, a monomeric *cis*-form and a dimeric (or oligomeric) *trans*-form

>>Derivative: *N*-Ac

Synonym(s): (Acetylamino)ferrocene, 12Cl. *N*-Ferrocenylacetamide, 8Cl. Acetamidoferrocene

CAS Registry Number: 1271-59-6

Molecular Formula: $C_{12}H_{13}FeNO$

Molecular Weight: 243.088

Accurate Mass: 243.034653

Percentage Composition: C 59.29%; H 5.39%; Fe 22.97%; N 5.76%; O 6.58%

Physical Description: Cryst. ($CHCl_3/Et_2O$)

Melting Point: Mp 167-168 dec.°. Mp 170.5-172°

>>Derivative: *N*-Benzoyl

Synonym(s): Benzamidoferrocene

Molecular Formula: $C_{17}H_{15}FeNO$

Molecular Weight: 305.159

Accurate Mass: 305.050303

Percentage Composition: C 66.91%; H 4.95%; Fe 18.30%; N 4.59%; O 5.24%

Melting Point: Mp 177-178°

>>Derivative: *N*-Me

Synonym(s): Methylaminoferrocene

Molecular Formula: $C_{11}H_{13}FeN$

Molecular Weight: 215.077

Accurate Mass: 215.039738

Percentage Composition: C 61.43%; H 6.09%; Fe 25.97%; N 6.51%

Physical Description: Brown solid

Melting Point: Mp 55-56°