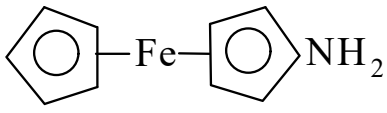
>>**Entry Name: Aminoferrocene,** 9CI
Synonym(s): Ferrocenylamine, 8CI



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, 12CI

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, 12CI. *N*-Ferrocenylacetamide, 8CI. 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°