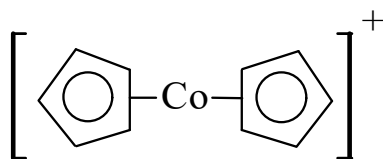




>>Entry Name: Cobaltocenium, 11Cl, 9Cl

Synonym(s): Cobalticinium. Di- π -cyclopentadienylcobalt(1+), 8Cl



CAS Registry Number: 12241-42-8

Molecular Formula: $C_{10}H_{10}Co^{(+)}$

Molecular Weight: 189.122

Accurate Mass: 189.011448

Percentage Composition: C 63.51%; H 5.33%; Co 31.16%

Source/Synthesis: Synth. from $CoCl_2$ + TICp in aq. DMSO or from CpH + $CoCl_2$ in Et_2NH or pyrrolidine

Other Data: Diamagnetic; air stable

>>Derivative: Chloride

CAS Registry Number: 12170-26-2

Molecular Formula: $C_{10}H_{10}ClCo$

Molecular Weight: 224.575

Accurate Mass: 223.9803

Percentage Composition: C 53.48%; H 4.49%; Cl 15.79%; Co 26.24%

Physical Description: Pale-yellow

Other Data: Hygroscopic

>>Derivative: Tribromide(1-)

CAS Registry Number: 12146-10-0

Molecular Formula: $C_{10}H_{10}Br_3Co$

Molecular Weight: 428.834

Accurate Mass: 425.826456

Percentage Composition: C 28.01%; H 2.35%; Br 55.90%; Co 13.74%

Physical Description: Orange-yellow

>>Derivative: Tetrafluoroborate

CAS Registry Number: 52314-53-1

Molecular Formula: $C_{10}H_{10}BCoF_4$

Molecular Weight: 275.927

Percentage Composition: C 43.53%; H 3.65%; B 3.92%; Co 21.36%; F 27.54%

Physical Description: Pale-yellow cryst.

>>Derivative: Hexafluorophosphate

CAS Registry Number: 12427-42-8

Molecular Formula: $C_{10}H_{10}CoF_6P$

Molecular Weight: 334.086

Percentage Composition: C 35.95%; H 3.02%; Co 17.64%; F 34.12%; P 9.27%

Physical Description: Yellow cryst. (H_2O)

Melting Point: Mp 300°

Solubility: Sl. sol. H_2O ; sol. Me_2CO , MeCN

Other Data: Stable to aq. alkali and conc. H_2SO_4

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