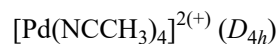




>>Entry Name: Tetrakis(acetonitrile)palladium(II)(2+), 8Cl

Synonym(s): Tetrakis(methyl cyanide)palladium(2+)



Molecular Formula: $\text{C}_8\text{H}_{12}\text{N}_4\text{Pd}^{2(+)}$

Molecular Weight: 270.63

Accurate Mass: 270.009674

Percentage Composition: C 35.51%; H 4.47%; N 20.70%; Pd 39.32%

>>Derivative: Bis-tetrafluoroborate

CAS Registry Number: 21797-13-7

Molecular Formula: $\text{C}_8\text{H}_{12}\text{B}_2\text{F}_8\text{N}_4\text{Pd}$

Molecular Weight: 444.239

Percentage Composition: C 21.63%; H 2.72%; B 4.87%; F 34.21%; N 12.61%; Pd 23.96%

Use/Importance: Catalyses polym. of styrene

Physical Description: Yellow cryst. (MeCN/Et₂O)

Melting Point: Mp 230° (dec.)

Aldrich: 33976-8

>>Derivative: Bis-trifluoromethanesulfonate

CAS Registry Number: 68569-14-2

Molecular Formula: $\text{C}_{10}\text{H}_{12}\text{F}_6\text{N}_4\text{O}_6\text{PdS}_2$

Molecular Weight: 568.77

Percentage Composition: C 21.12%; H 2.13%; F 20.04%; N 9.85%; O 16.88%; Pd 18.71%; S 11.28%

Physical Description: Catalyses prepn. of unsaturated amines

Other Data: No physical data available

>>Derivative: Bis-hexachloroantimonate

CAS Registry Number: 17500-34-4

Molecular Formula: $\text{C}_8\text{H}_{12}\text{Cl}_{12}\text{N}_4\text{PdSb}_2$

Molecular Weight: 939.562

Percentage Composition: C 10.23%; H 1.29%; Cl 45.28%; N 5.96%; Pd 11.33%; Sb 25.92%

Other Data: No physical data available

>>Derivative: Bis-tetrachlorothallate

CAS Registry Number: 21374-01-6

Molecular Formula: $\text{C}_8\text{H}_{12}\text{Cl}_8\text{N}_4\text{PdTl}_2$

Molecular Weight: 963.018

Percentage Composition: C 9.98%; H 1.26%; Cl 29.45%; N 5.82%; Pd 11.05%; Tl 42.45%

Physical Description: Solid

Melting Point: Mp 83-86 dec.°

>>Derivative: Bis-acetonitrilepentachlorostannate

CAS Registry Number: 175353-54-5

Molecular Formula: $\text{C}_{12}\text{H}_{18}\text{Cl}_{10}\text{N}_6\text{PdSn}_2$

Molecular Weight: 944.681

Accurate Mass: 937.555692

Percentage Composition: C 15.26%; H 1.92%; Cl 37.53%; N 8.90%; Pd 11.27%; Sn 25.13%

Source/Synthesis: Synth. from $[\text{NO}]_2[\text{SnCl}_6]$ and Pd in MeCN

Physical Description: Cryst. (MeCN)

References:

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Reedijk, J. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1967, **86**, 1127; 1968, **87**, 513, (ir, synth)

Schramm, R.F. *et al.*, *Chem. Comm.*, 1968, 898, (synth, ir)

Sen, A. *et al.*, *J.A.C.S.*, 1981, **103**, 4627, (use)

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