



>>Entry Name: Tetrachloropalladate(II)(2-), 8Cl

Synonym(s): Tetrachloropalladite

CAS Registry Number: 14349-67-8

$[\text{PdCl}_4]^{2(-)}$

Molecular Formula: $\text{Cl}_4\text{Pd}^{2(-)}$

Molecular Weight: 248.231

Accurate Mass: 245.778886

Percentage Composition: Cl 57.13%; Pd 42.87%

Source/Synthesis: Obt. by reaction of $\text{PdCl}_2 + 2\text{Cl}^{(-)}$

Use/Importance: Useful starting material for many Pd complexes. Has applications in catalysis of many org. reactions (particularly Li and Na salts), plating, photography.

Subject of kinetic studies of substitution mechanisms

Other Data: V. many salts known

>>Derivative: Di-Li salt

Synonym(s): Lithium tetrachloropalladate(II)

CAS Registry Number: 15525-45-8

Extra CAS Registry Numbers(s): 123334-21-4

Molecular Formula: $\text{Cl}_4\text{Li}_2\text{Pd}$

Molecular Weight: 262.113

Accurate Mass: 259.810892

Percentage Composition: Cl 54.10%; Li 5.30%; Pd 40.60%

Use/Importance: Commercially available

Physical Description: Red-purple hygroscopic solid

Solubility: Sol. polar org. solvs.

>>Derivative: Di-Na salt

Synonym(s): Sodium tetrachloropalladate(II)

CAS Registry Number: 13820-53-6

Molecular Formula: $\text{Cl}_4\text{Na}_2\text{Pd}$

Molecular Weight: 294.21

Accurate Mass: 291.75842

Percentage Composition: Cl 48.20%; Na 15.63%; Pd 36.17%

Use/Importance: Commercially available. Homogeneous catalyst

Physical Description: Brown-red hygroscopic cryst. + $3\text{H}_2\text{O}$

Solubility: V. sol. H_2O ; sol. EtOH

Aldrich: 37980-8

Fluka: 72009

>>Derivative: Di-K salt

Synonym(s): Potassium tetrachloropalladate(II)

CAS Registry Number: 10025-98-6

Molecular Formula: $\text{Cl}_4\text{K}_2\text{Pd}$

Molecular Weight: 326.427

Accurate Mass: 323.7063

Percentage Composition: Cl 43.44%; K 23.96%; Pd 32.60%

Use/Importance: Commercially available

Physical Description: Red-brown solid

Melting Point: Mp 105° (dec.)

Solubility: V. sol. H_2O

Aldrich: 20579-6

Fluka: 60560

Sigma: P1554