>>**Entry Name: Tetrachloropalladate(*II*)(2–),** 8Cl
Synonym(s): Tetrachloropalladite

CAS Registry Number: 14349-67-8
$[PdCl_4]^{2(-)}$

Molecular Formula: $Cl_4Pd^{2(-)}$
Molecular Weight: 248.231
Accurate Mass: 245.778886
Percentage Composition: Cl 57.13%; Pd 42.87%

Source/Synthesis: Obt. by reaction of $PdCl_2 + 2Cl^{(-)}$
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: Cl_4Li_2Pd
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: Cl_4Na_2Pd
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. + $3H_2O$
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: Cl_4K_2Pd
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