



>>Entry Name: Hexachloropalladate(IV)(2-), 8Cl

CAS Registry Number: 17141-41-2

Related CAS Registry Numbers(s): 19583-77-8

[PdCl₆]²⁽⁻⁾

Molecular Formula: Cl₆Pd²⁽⁻⁾

Molecular Weight: 319.136

Accurate Mass: 315.71659

Percentage Composition: Cl 66.65%; Pd 33.35%

Source/Synthesis: Synth. from [PdCl₄]²⁽⁻⁾ + Cl₂ or Pd + aqua regia

Other Data: Stable in aq. solns. if Cl₂-saturated

>>Derivative: Di-Na salt

Synonym(s): Sodium hexachloropalladate(IV)

CAS Registry Number: 53823-60-2

Molecular Formula: Cl₆Na₂Pd

Molecular Weight: 365.116

Accurate Mass: 361.696124

Percentage Composition: Cl 58.26%; Na 12.59%; Pd 29.15%

Use/Importance: Commercially available as tetra- and hexa-hydrates

Physical Description: Deep red solid

>>Derivative: Di-K salt

Synonym(s): Potassium hexachloropalladate(IV)

CAS Registry Number: 16919-73-6

Molecular Formula: Cl₆K₂Pd

Molecular Weight: 397.333

Accurate Mass: 393.644004

Percentage Composition: Cl 53.54%; K 19.68%; Pd 26.78%

Physical Description: Deep red solid

Aldrich: 46369-8

Fluka: 60250

>>Derivative: Di-NH₄ salt

Synonym(s): Ammonium hexachloropalladate(IV)

CAS Registry Number: 19168-23-1

Molecular Formula: Cl₆H₈N₂Pd

Molecular Weight: 355.213

Accurate Mass: 351.785338

Percentage Composition: Cl 59.88%; H 2.27%; N 7.89%; Pd 29.96%

Use/Importance: Commercially available. Sensitizer for photographic emulsion; tobacco additive

Physical Description: Deep red solid

Hazard & Toxicity: Irritant

Aldrich: 32353-5

Fluka: 9760

References:

Hendra, P.J. *et al.*, *Spectrochim. Acta A*, 1967, **23**, 1635, (*ir*, *Raman*)

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