



Percentage Composition: Cl 47.71%; H 1.36%; O 7.18%; Pt 43.76%

Source/Synthesis: Synth. from Pt and aqua regia

Physical Description: Yellow needles

Other Data: See also Hexachloroplatinic acid [JCZ29-Q](#)

>>**Derivative:** Di-NH₄ salt

Synonym(s): Ammonium hexachloroplatinate(IV)

CAS Registry Number: 16919-58-7

Molecular Formula: Cl₆H₈N₂Pt

Molecular Weight: 443.873

Accurate Mass: 440.846626

Percentage Composition: Cl 47.92%; H 1.82%; N 6.31%; Pt 43.95%

Physical Description: Yellow solid

Solubility: Sol. H₂O

Other Data: Ignition gives Pt metal

Aldrich: 32610-0

Fluka: 9770

>>**Derivative:** Di-tetrabutylammonium salt

CAS Registry Number: 18129-78-7

Molecular Formula: C₁₆H₃₆Cl₆NPt

Molecular Weight: 650.263

Accurate Mass: 647.062652

Percentage Composition: C 29.55%; H 5.58%; Cl 32.71%; N 2.15%; Pt 30.00%

Source/Synthesis: Synth. from K₂PtCl₆ and [Bu₄N]HSO₄

Use/Importance: Catalyses hydrosilylation of alkynes

Physical Description: Orange solid

References:

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Inorg. Synth., 1972, **13**, 173, (synth, uv)

Williams, R.J. *et al.*, *Acta Cryst. B*, 1973, **29**, 1369, (cryst struct)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **3**, 1712, (synth, NH₄, K, Na salts)

Pesek, J.J. *et al.*, *J. Magn. Reson.*, 1977, **25**, 519

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Iovel, I.G. *et al.*, *Organometallics*, 1987, **6**, 1410, (tetrabutylammonium salt, synth, pmr, use)

Rau, F. *et al.*, *Z. Kristallogr.*, 1995, **210**, 684, (di-oxonium salt, cryst struct)

Yilmaz, V.T. *et al.*, *Acta Cryst. C*, 1997, **53**, 294, (cryst struct)

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