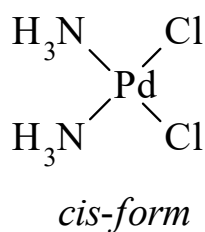




>>Entry Name: Diamminedichloropalladium(II), 8Cl

Synonym(s): Palladium(II) chloride diammine



CAS Registry Number: 14323-43-4

Molecular Formula: $\text{Cl}_2\text{H}_6\text{N}_2\text{Pd}$

Molecular Weight: 211.386

Accurate Mass: 209.89428

Percentage Composition: Cl 33.54%; H 2.86%; N 13.25%; Pd 50.34%

General Statement: Square planar

>>Variant: *cis-form*

CAS Registry Number: 15684-18-1

Molecular Formula: $\text{Cl}_2\text{H}_6\text{N}_2\text{Pd}$

Molecular Weight: 211.386

Accurate Mass: 209.89428

Percentage Composition: Cl 33.54%; H 2.86%; N 13.25%; Pd 50.34%

General Statement: Readily converts to *trans-form*

Source/Synthesis: Synth. from $[\text{PdCl}_4]^{2(-)} + \text{NH}_3$

>>Variant: *trans-form*

CAS Registry Number: 13782-33-7

Molecular Formula: $\text{Cl}_2\text{H}_6\text{N}_2\text{Pd}$

Molecular Weight: 211.386

Accurate Mass: 209.89428

Percentage Composition: Cl 33.54%; H 2.86%; N 13.25%; Pd 50.34%

Source/Synthesis: Synth. from $[\text{Pd}(\text{NH}_3)_4]^{2(+)} + \text{Cl}^{(-)}$

Use/Importance: Commercially available

Physical Description: Yellow solid

Hazard & Toxicity: Highly toxic. Irritant

Aldrich: 20395-5

References:

Coe, J.S. *et al.*, *Inorg. Nucl. Chem. Lett.*, 1967, **3**, 99, (*uv*)

Perry, C.H. *et al.*, *Spectrochim. Acta A*, 1967, **23**, 1137, (*synth, ir*)

Hendra, P.J. *et al.*, *Spectrochim. Acta A*, 1967, **23**, 1275, (*Raman*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **3**, 1732, (*synth, trans-form*)

Kukushkin, Yu.N. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1978, **23**, 406, (*synth*)