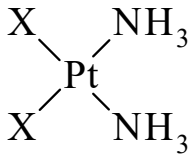
>>**Entry Name: Diamminedinitritoplatinum(*II*)**
Synonym(s): Diamminebis(nitrito)platinum(*II*), 9CI. Diamminedinitroplatinum(*II*), 8CI



cis-form

X = NO_2

CAS Registry Number: 14286-02-3
Related CAS Registry Numbers(s): 63718-03-6

Molecular Formula: $H_6N_4O_4Pt$
Molecular Weight: 321.152
Accurate Mass: 321.003672
Percentage Composition: H 1.88%; N 17.45%; O 19.93%; Pt 60.74%
General Statement: Square planar. Alleged *O*-coordination isomer dubious. Despite its antiquity this compd. has received few modern studies
Use/Importance: Usual source of Pt in plating solns.

Aldrich: 33988-1

>>**Variant:** *cis*-form

CAS Registry Number: 14409-61-1
Molecular Formula: $H_6N_4O_4Pt$
Molecular Weight: 321.152
Accurate Mass: 321.003672
Percentage Composition: H 1.88%; N 17.45%; O 19.93%; Pt 60.74%
General Statement: Config. not confirmed
Source/Synthesis: Synth. from Tetrachloroplatinate(*II*)(2–) JCX42-F + $NO_2^{(-)}$,NH_3
Physical Description: Colourless needles
Solubility: Sol. H_2O

>>**Variant:** *trans*-form

CAS Registry Number: 15413-19-1
Molecular Formula: $H_6N_4O_4Pt$
Molecular Weight: 321.152
Accurate Mass: 321.003672
Percentage Composition: H 1.88%; N 17.45%; O 19.93%; Pt 60.74%
General Statement: Config. not confirmed
Source/Synthesis: Synth. from *cis*-form + NH_3 (aq.)
Solubility: Sol. H_2O

References:

Chugaev, L.A. *et al.*, *J.C.S.*, 1916, 1286, *(synth)*
Staples, P.J. *et al.*, *J.C.S.(A)*, 1969, 1058, *(reactions)*
Zheligovskaya, N.N. *et al.*, *Vestn. Mosk. Univ., Ser. 2: Khim.*, 1974, **15**, 174; *CA*, **81**, 171992h, *(synth)*
Brauer, G.*, Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **3**, 1725, *(synth)*