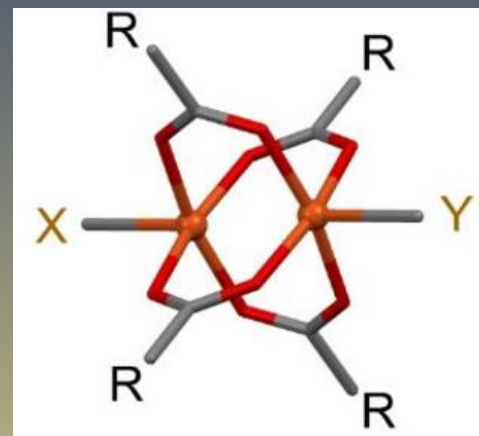


● C:\Users\gasqu_000\Documents\Docencia\Coo
rdinación\20-2\Cu(AcO)2.xyz

$[\{\text{Cu}(\text{H}_2\text{O})\}_2 (\mu\text{-C}_2\text{H}_3\text{O}_2)_4] = \text{tetrakis } (\mu\text{-acetato}) \text{ bis } (\text{acu})\text{Cobre (II)}$

“Paddle Wheel”







ELSEVIER

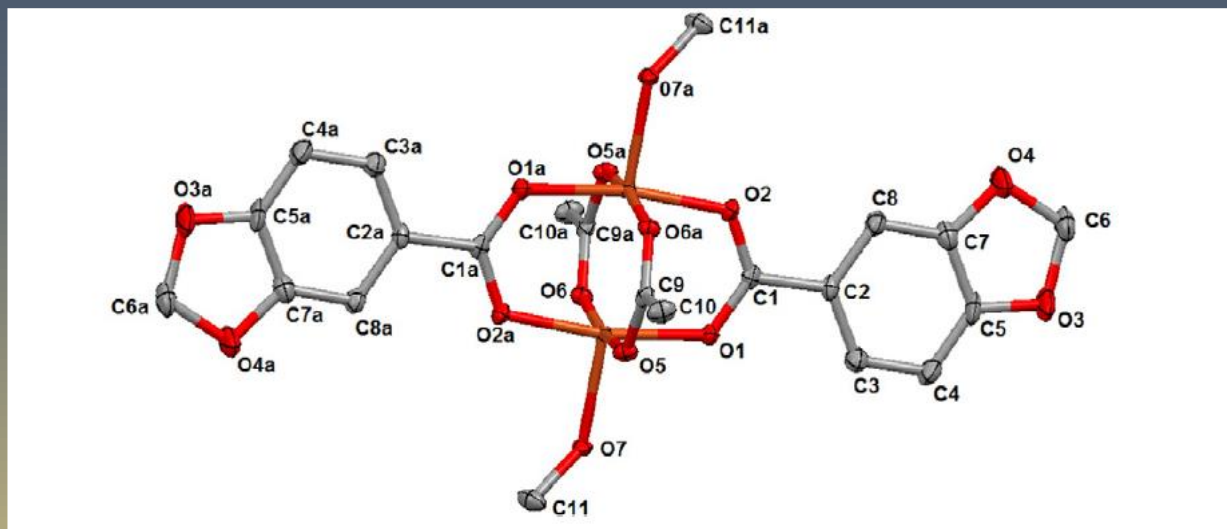
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Short communication

Synthesis, crystal structure and magnetic properties of a Cu(II) paddle-wheel complex with mixed bridges

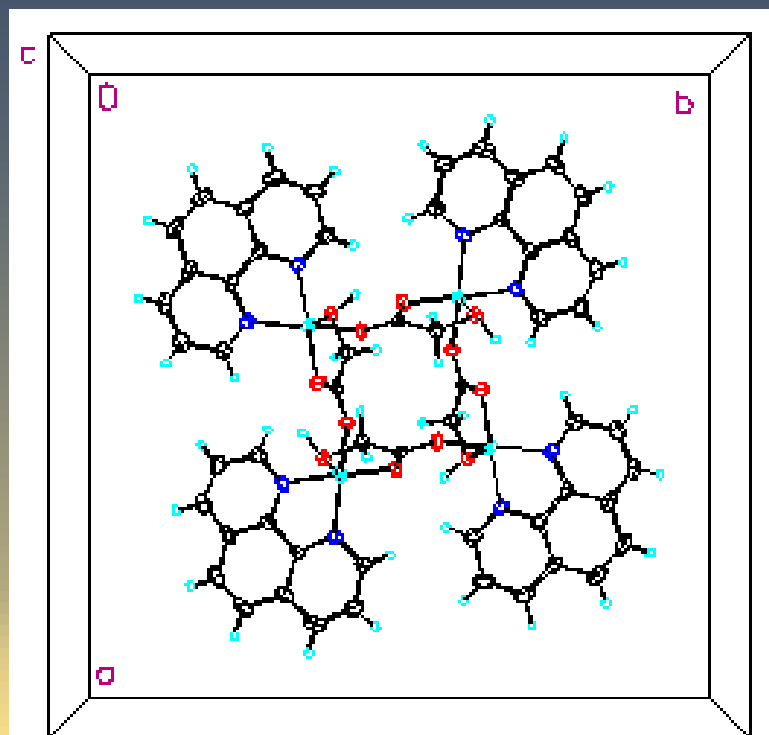


**A ferrimagnetic cyclic tetranuclear copper(II) complex:
cyclo-[tetrakis(μ - η^3 -hydroxyethanoato-1 κ O:2 κ^2 O',O'')tetrakis-
 (1,10-phenanthroline)tetracopper] tetranitrate dihydrate.
 Structural and magnetic properties †**

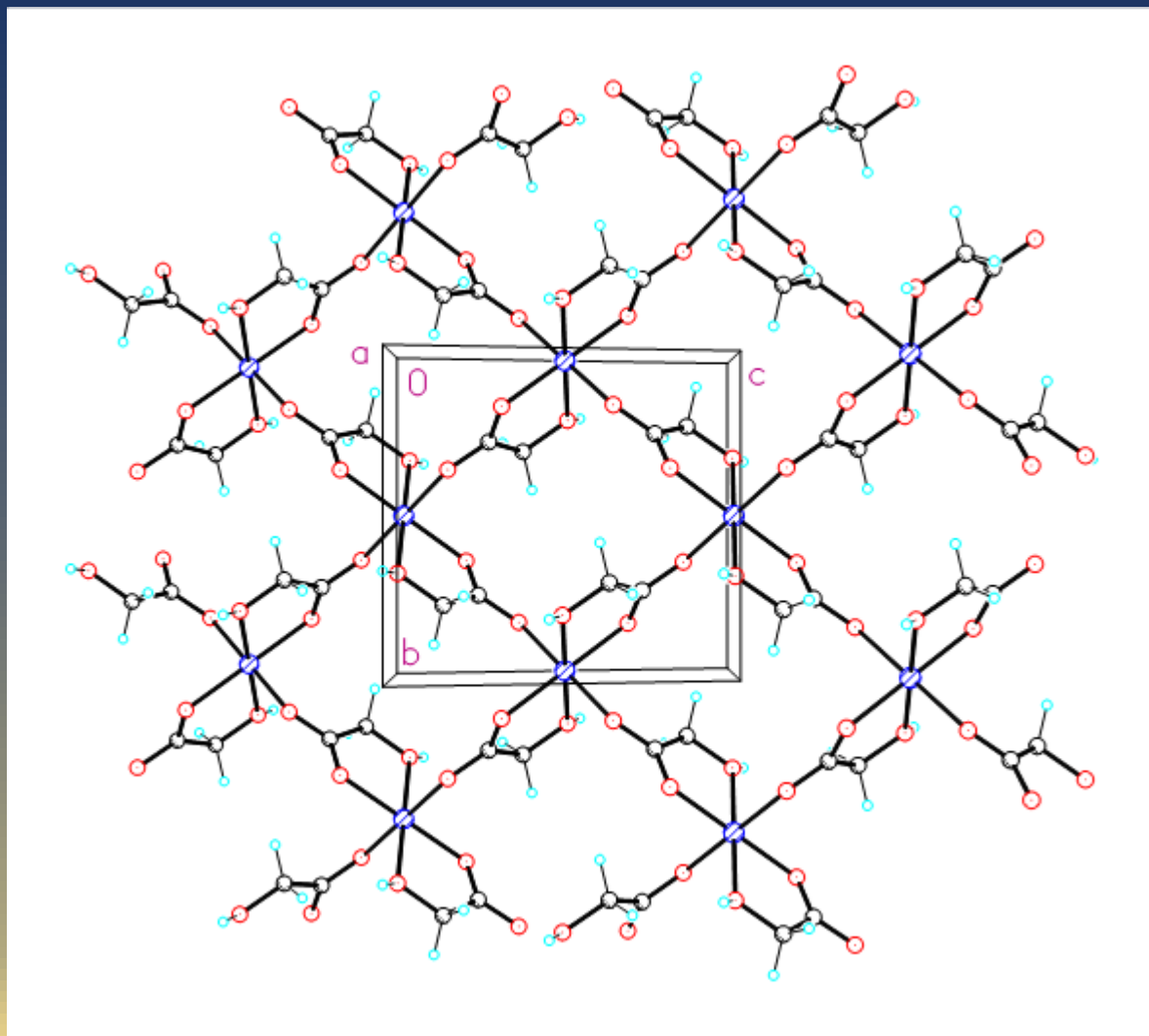
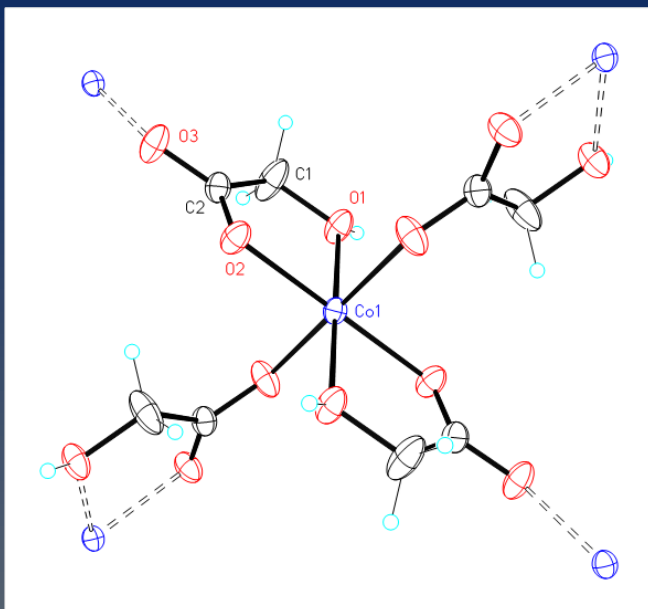
Rodolfo Acevedo-Chávez,^a María Eugenia Costas,^a Sylvain Bernès,^b Gerardo Medina^a and
 Laura Gasque^{*a}

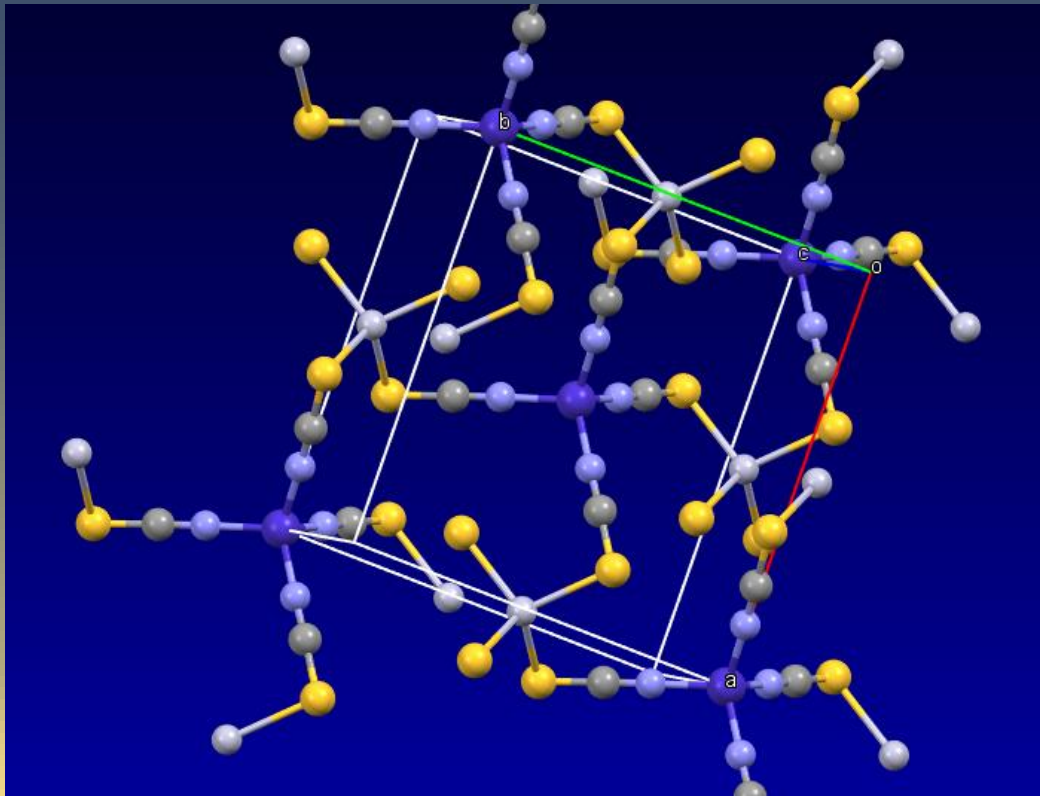
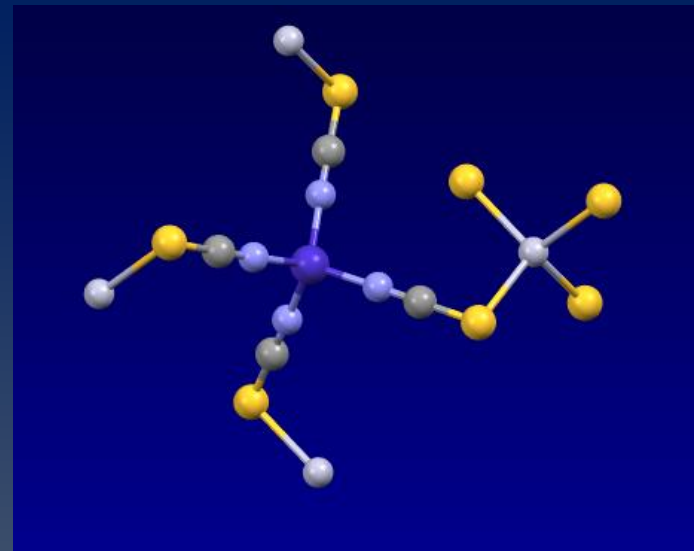
^a *Facultad de Química, Universidad Nacional Autónoma de México, México 04510,
 D.F. México*

^b *Centro de Química, Instituto de Ciencias, B. Universidad Autónoma de Puebla,
 Apartado Postal 1613, Puebla, Pue., México*



Co(glicolato)₂





Isomería en compuestos de coordinación

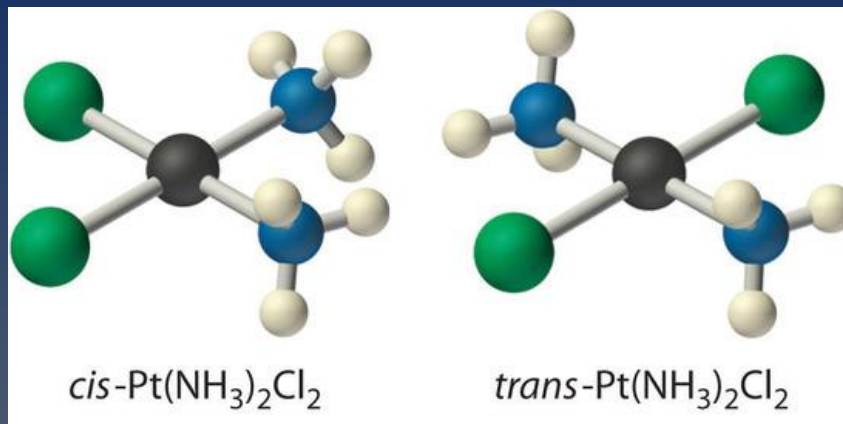
Tipos de isomería

- Geométrica
- De enlace
- De ionización
- De coordinación
- Óptica

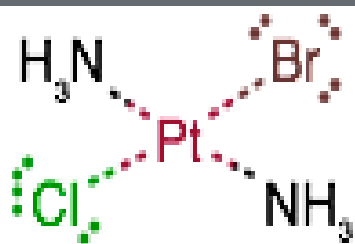
Isomería Geométrica: Cis- trans

- En complejos Cuadrados:

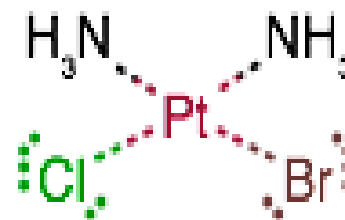
- Cis-trans $[MA_2B_2]$



- Cis-trans $[MA_2BC]$



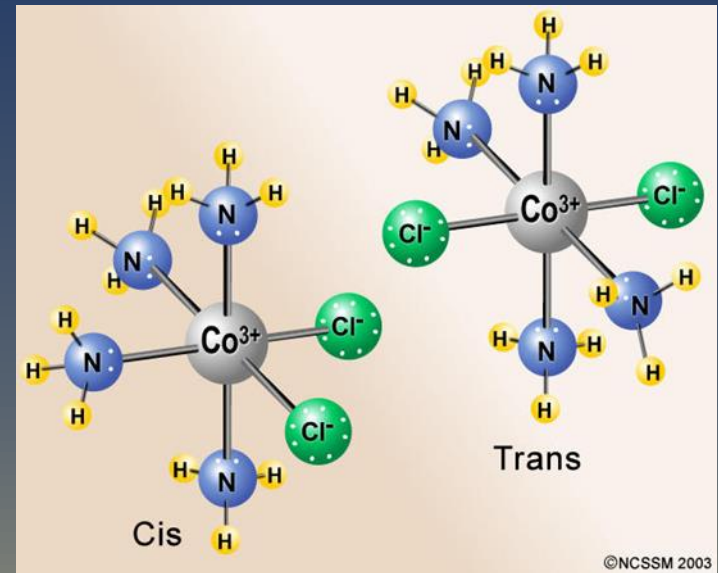
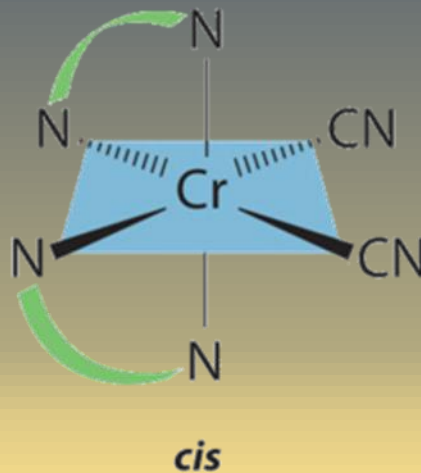
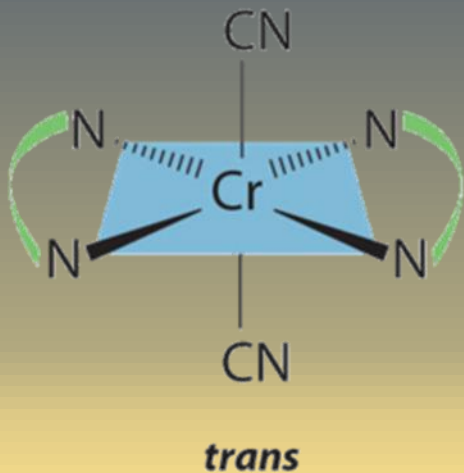
trans-diamminebromochloroplatinum(II)



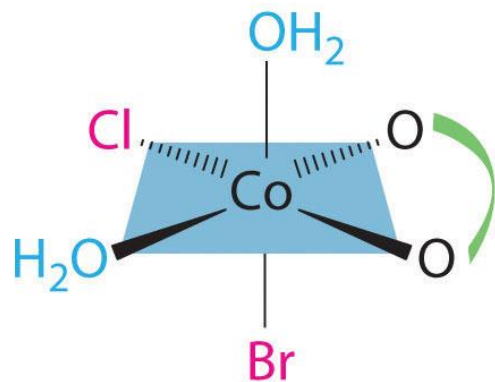
cis-diamminebromochloroplatinum(II)

Isomería Geométrica: Cis- trans

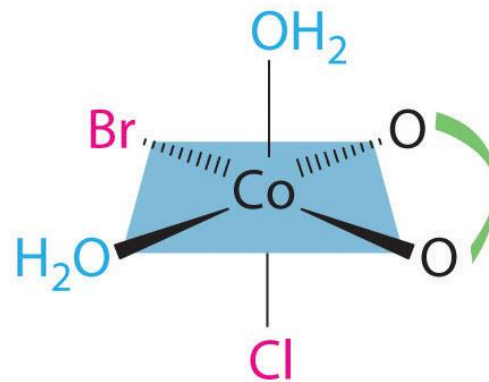
- En complejos octaédricos:
 - cis-trans $[MA_4B_2]$
 - cis-trans $[M(X-X)_2B_2]$



Cis trans con respecto a un ligante



H_2O 's *cis*; Br, Cl *cis*;
Cl *trans* to O



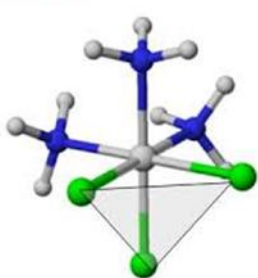
H_2O 's *cis*; Br, Cl *cis*;
Br *trans* to O

Isomería Geométrica: mer-fac

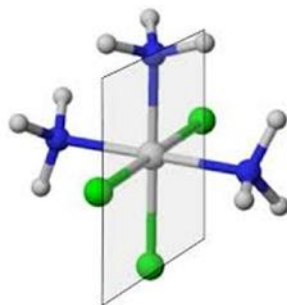
- SOLO en complejos octaédricos
 - Mer- Fac $[MA_3B_3]$
 - Mer- Fac $[M(N-N-N)B_3]$

fac isomer has three identical ligands lying at the corners of a triangular face of octahedron (fac=facial).

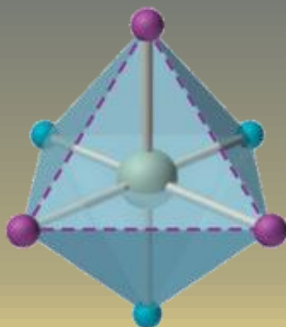
mer isomer ligands follow a meridian (mer=meridional).



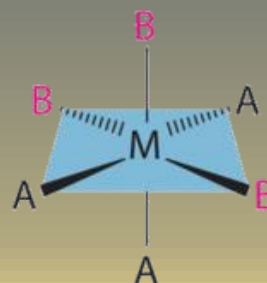
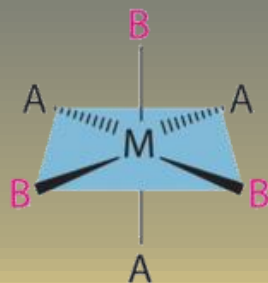
fac isomer



mer isomer

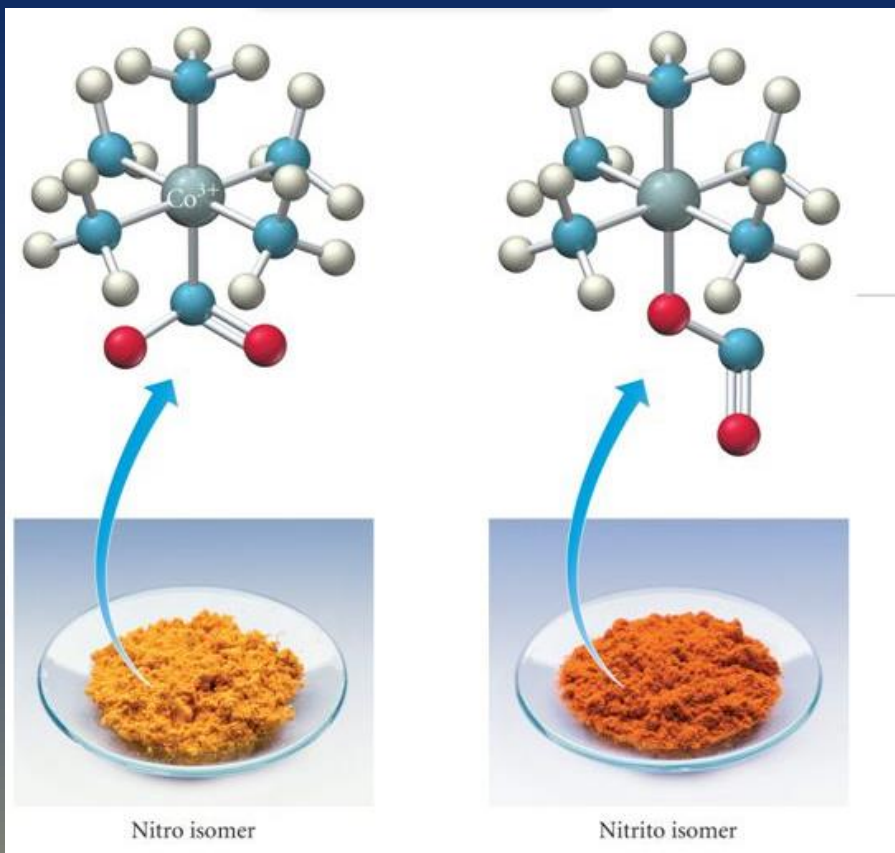


MA_3B_3 octahedral complex, *fac isomer*

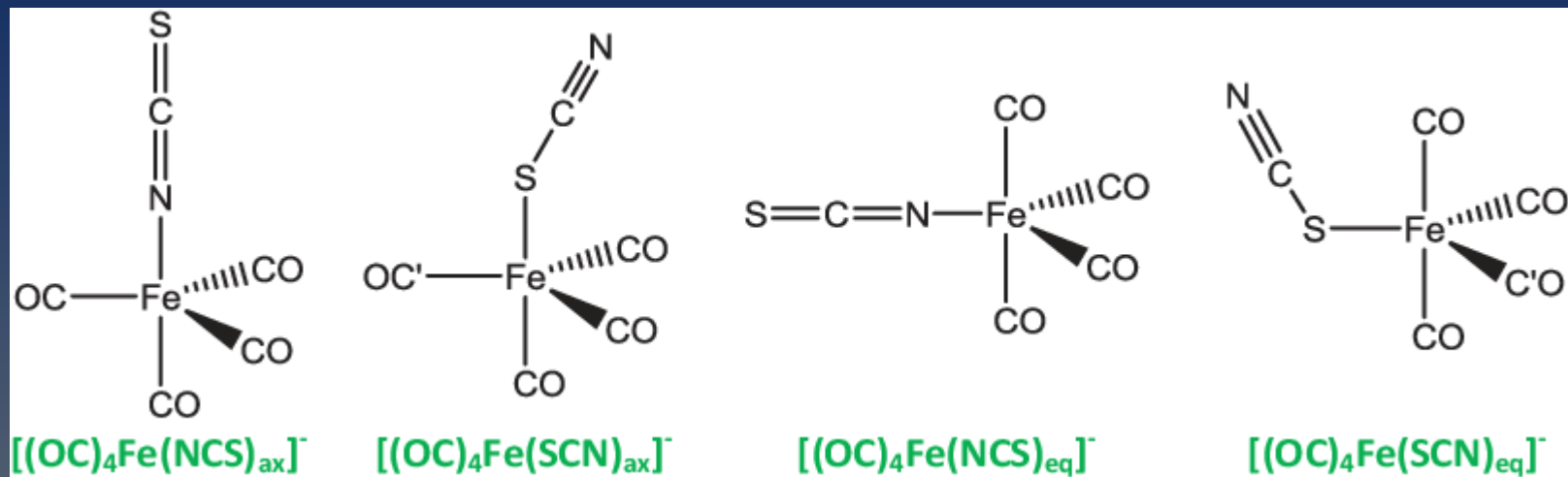


MA_3B_3 octahedral complex, *mer isomer*

Isomería de enlace

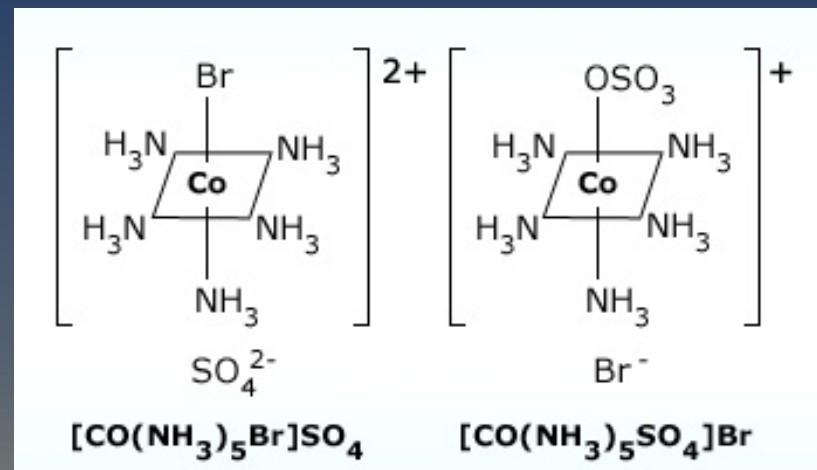


The linkage isomers $[\text{Re}(\text{NCS})_6]^{2-}$ and $[\text{Re}(\text{NCS})_5(\text{SCN})]^{2-}$ are formed

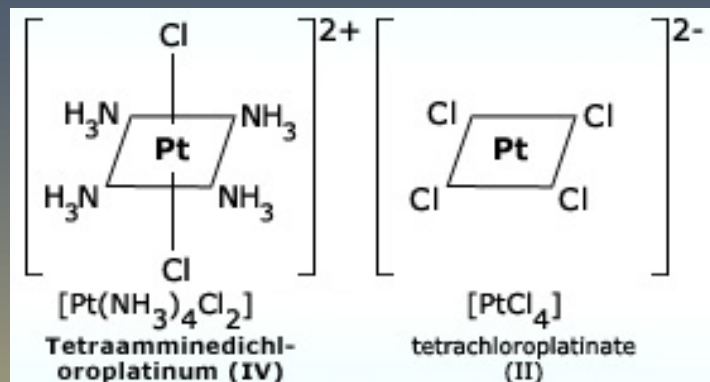
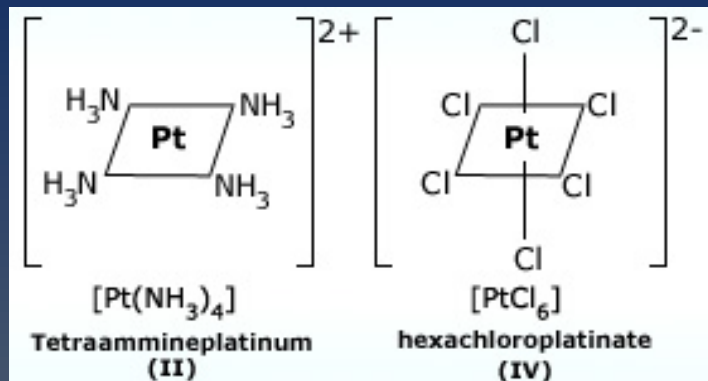


Solvent effect on the linkage isomerism in $[Fe(CO)_4(NCS)]^-$ and $[Fe(CO)_4(SCN)]^-$ anions: **A theoretical investigation**

De ionización



De coordinación



- Tris quelatos
- Bis quelatos en *cis*

