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Compounds

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Chemistry Reactions

Chapter 12 Coordination Chemistry IV: Reaction and
Mechanisms Share some characteristics with reactions
of other molecules. Have some additional features
because the molecules have more complex
(geometries, rearrangement, metal atom etc.)
Substitution Oxidation-Reduction Reactions of
Coordinated Ligand

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complexes Redox reactions Ligand substitution in
octahedral complexes Ligand substitution in square-
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Thermodynamic considerations Formation Constants

Chapter 20 Coordination chemistry: reactions of
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substitution in square-planar complexes Ligand
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Chemistry IV: Reaction and Mechanisms 12-1 History and Principles 12-2 Substitution Reactions 12-3 Kinetic Consequences of Reaction Pathways 12-4 ...

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Chapter 20: Coordination Chemistry: Reactions of Complexes 133 . to $[\text{PtCl}_4]^{2-}$, you will produce $[\text{PtCl}_3(\text{NO}_2)]^{2-}$. Now if you add NH_3 , the NO_2^- ligand trans to NO_2^- will be substituted faster than one of the mutually trans Cl ligands, and the trans isomer will be the result. These two step syntheses are shown below:
less labile, $[\text{PtCl}_2(\text{NO}_2)_2]$

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Chapter 20: Coordination Chemistry: Reactions of
Complexes 131

Chapter 20 Coordination chemistry: reactions of
complexes Redox reactions Ligand substitution in
octahedral complexes Ligand substitution in square-
planar complexes Ligand substituton reactions
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Evidence in Octahedral substitution 12-5
Stereochemistry of Reactions 12-6 Substitution
Reactions of ...

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Chapter 20: Coordination Chemistry: Reactions of Complexes 131 20.14. We can assume 112 to be unity. The redox potential data allows us to calculate K_{12} , since $E_{01} - E_{02} = [RT/nF] \ln K_{12}$. The value of E_{01} can be calculated by subtracting the anodic reduction potential.

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coordination The reaction of one or more ligands with a metal ion to form a coordination compound. redox A reversible chemical reaction in which one reaction is an oxidation and the reverse is a reduction. donor atom The atom within a ligand that is bonded to the central atom or ion within a coordination complex.

Reactions of Coordination Compounds | Introduction to ...

Coordination complexes can undergo a variety of reactions, including electron transfer, ligand exchange, and associative processes. Key Terms. coordination: The reaction of one or more ligands with a metal ion to form a coordination compound. redox: A reversible

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chemical reaction in which one reaction is an oxidation and the reverse is a reduction.

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Chapter 20. The coordination chemistry of macrocyclic
ligands . S. L. W. Mcwhinnie Abstract. The first page of
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Chapter 20. The coordination chemistry of macrocyclic

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...

The first order reaction appears to be a dissociative reaction or a solvent- assisted dissociation of $\text{Co}(\text{NH}_3)_6^{3+}$, followed by a fast addition of $\text{As}(\text{C}_6\text{H}_5)_3$. The other path shows first

CHAPTER 12: COORDINATION CHEMISTRY IV: REACTIONS AND ...

Coordination chemistry: reactions of complexes.
Reactions of Complexes. Typically measure ligand substitution reactions in solution (usually water)
Lability and Inertness Labile: complexes with half-lives under 1 minute . Inert: complexes with half-lives longer than 1 minute (better term is non-labile) Figure

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20.1 shows lifetimes for exchange of water

Chapter 21 Coordination chemistry: reactions of complexes

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Chapter 21 Coordination chemistry: reactions of complexes. 0 (0) Click on the images to launch the 3D version. Figure 21.9: Figure 21.12 ...

Chapter 21 Coordination chemistry: reactions of complexes

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Chapter 19. Transition Metals and Coordination Chemistry. Introduction; 19.1 Occurrence, Preparation, and Properties of Transition Metals and Their Compounds; 19.2 Coordination Chemistry of Transition Metals; 19.3 Spectroscopic and Magnetic Properties of Coordination Compounds; Chapter 20. Organic Chemistry. Introduction; 20.1 Hydrocarbons; 20 ...

Chapter 5. Thermochemistry – Chemistry
FOUNDATIONS Chapter 1: Atomic structure Chapter
2: Molecular structure and bonding Chapter 3: The
structures of simple solids Chapter 4: Acids and bases
Chapter 5: Oxidation and reduction Chapter 6:
Molecular symmetry Chapter 7: An introduction to

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