

Chemistry Worksheet on Chapter 9 Coordination Compounds -Set 1

Q-1: In the complex $[M(acac)(en)_2]Cl$, the coordination number and oxidation state of the element 'M' are respectively

- a) 6 and 2
- b) 4 and 2
- c) 4 and 3
- d) 6 and 3

Q-2: An example of double salt is

- a) Camallite
- b) Potassium Ferricyanide
- c) Cuprammonium nitrate
- d) triglycinatocobalt(III)

Q-3: The characteristics shared by the species CN^- , CO , and NO^+ are

- a) Isoelectronic
- b) Bond order three
- c) All are sigma donor and pi acceptor
- d) All of these

Q-4: Which of the following is a didentate ligand?

(a) $P(OPh)_3$

(b) NH_2NH_2



(d) None of these

Q-5: Which of the following cannot act as a chelating agent?

- a) $HC(CH_2CH_2NH_2)_3$
- b) $CH_3NHCH_2CH_2CH_3$

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LL Leslie

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

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Coordination chemistry is the study of compounds formed between metal ions and other neutral or negatively charged molecules This book offers a series of investigative inorganic laboratories approached through systematic coordination chemistry It not only highlights the key fundamental components of the coordination chemistry field it also exemplifies the historical development of concepts in the field In order to graduate as a chemistry major that fills the requirements of the American Chemical Society a student needs to take a laboratory course in inorganic chemistry Most professors who teach and inorganic chemistry laboratory prefer to emphasize coordination chemistry rather than attempting to cover all aspects of inorganic chemistry because it keeps the students focused on a cohesive part of inorganic chemistry which has applications in medicine the environment molecular biology organic synthesis and inorganic materials

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