Assignment-1  Advanced Transition Metal Organometallic Chemistry

The due date for submitting this assignment has passed. Due on 2019-02-13, 23:59 IST.

Assignment submitted on 2019-02-08, 13:52 IST

1) Incorrect statement(s) about an allyl ligand is(are), 1 point
- displays C$_n$H$_{n+2}$ (n < 3) formula
- can act as a neutral ligand
- can act as a cationic ligand
- can act as an anionic ligand

No, the answer is incorrect.
Score: 0

Accepted Answers:
displays C$_n$H$_{n+2}$ (n < 3) formula

2) The method that may not produce transition metal allyl complexes is(are), 1 point
- replacement of X$^-$ by allyl$^-$
- rearrangement of s-allyl (h$^1$) → p-allyl (h$^3$).
- conversion of p-olefin (h$^2$ or h$^4$) → p-allyl (h$^3$).
- oxidizing the allyl alcohol.

No, the answer is incorrect.
Score: 0

Accepted Answers:
oxidizing the allyl alcohol.

3) Predict the product of the reaction, 1 point

No, the answer is incorrect.
Score: 0

Accepted Answers:
4) Predict the product of the reaction,

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

No, the answer is incorrect.
Score: 0
Accepted Answers:

5) Predict the product of the reaction,

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

No, the answer is incorrect.
Score: 0
Accepted Answers:

6) For the following two compounds (A) and (B), identify the correct statement(s),

- [ ] (A) is more stable than (B).
- [ ] (B) is more stable than (A).
- [ ] both (A) and (B) are NOT isoelectronic species.
- [ ] both (A) and (B) are paramagnetic species.

No, the answer is incorrect.
Score: 0
Accepted Answers:

7) Predict the product of the reaction,

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

No, the answer is incorrect.
Score: 0
Accepted Answers:

8) Predict the product of the reaction,

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

No, the answer is incorrect.
Score: 0
Accepted Answers:
9) Predict the product of the reaction, 1 point

No, the answer is incorrect.
Score: 0

Accepted Answers:

10) Predict the product of the reaction, 1 point

No, the answer is incorrect.
Score: 0

Accepted Answers: