Unit 13 - Week 12

Assignment-12  Advanced Transition Metal Organometallic Chemistry

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2019-04-24, 23:59 IST.

1) The complex that would carry out hydrogenation of alkene is, 1 point

No, the answer is incorrect.

Score: 0

Accepted Answers:

2) The following reaction represents, 1 point

- a dihydrogen activation reaction
- a reductive elimination reaction
- an oxidative addition reaction
- a migratory insertion reaction

No, the answer is incorrect.

Score: 0

Accepted Answers:

a dihydrogen activation reaction
an oxidative addition reaction

3) Wilkinson catalyst catalyses, 1 point

- oxidation reaction of olefins
- C-C cross coupling reactions

No, the answer is incorrect.

Score: 0

Accepted Answers:

Wilkinson catalyst catalyses:
oxidation reaction of olefins
C-C cross coupling reactions
hydrogenation reaction of alkenes

4) The most preferred olefin for hydrogenation reaction by Wilkinson catalyst \([(PPh_3)_3RhCl]\) is, 

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

5) SHOP process involves, 

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

6) The Wilkinson catalyst is represented by, 

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

7) The Tennessee Eastman process produces, 

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

acetic anhydride

8) The Crabtree’s catalyst for hydrogenation of olefins is represented by 

(COD)_2Ni
(COD)PdCl_2
[(COD)Rh(PPh_3)_2]PF_6
[(COD)Ir(PCy_3)(pyridine)]PF_6
9) Identify the catalyst, that would carry out the following transformation towards the synthesis of (S)-naproxen precursor,

No, the answer is incorrect.
Score: 0
Accepted Answers:
\[(\text{COD})\text{Ir(PCy}_3\text{(pyridine)})\text{PF}_6\]  

10) The suitable ligand for inducing chirality in the hydrogenation with \([\text{L}_2\text{Rh(Sol)}_2]^+\) would be,

No, the answer is incorrect.
Score: 0
Accepted Answers:
1,3-\text{bis}(\text{phenylphosphino})\text{propane}
1,3-\text{bis}(\text{phenylphosphino})\text{ethane}
PPh\text{\_3}
NORPHOS

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