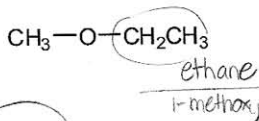


Chapter 14 Worksheet 03

Nomenclature:

Give an acceptable name for each of the following compounds. Be sure to indicate the stereochemistry where appropriate.

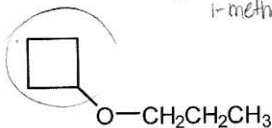
1.



1-methoxyethane or just methoxyethane

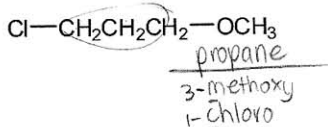
2.

cyclobutane
propoxy



propoxycyclobutane

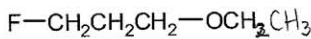
3.



1-chloro-3-methoxypropane

4.

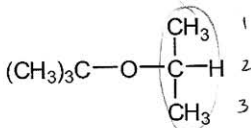
propane
3-fluoro
1-ethoxy



1-ethoxy-3-fluoropropane

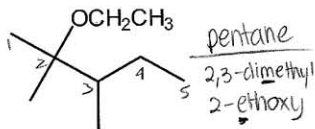
5.

propane
2-t-butoxy



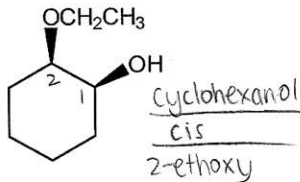
2-t-butoxypropane

6.



2-ethoxy-2,3-dimethylpentane

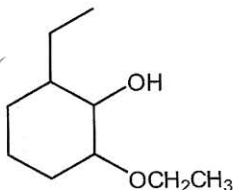
7.



cis-2-ethoxycyclohexanol

8.

* can # either way. determine numbering by letters



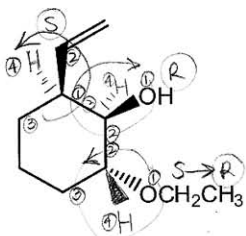
2-ethoxy-6-ethylcyclohexanol

cyclohexanol

2-ethoxy
6-ethyl

* 'o' beats 'y' so ethoxy gets #2

9.



(1R,2S,6R)-2-ethenyl-6-ethoxycyclohexanol

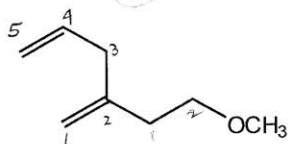
cyclohexanol

(1R,2S,6R)

6-ethoxy

2-ethenyl

10.

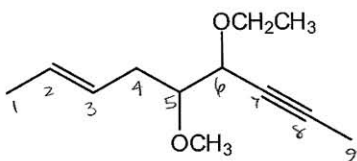


2-(2-methoxyethyl)penta-1,4-diene

penta-1,4-diene

2-(2-methoxyethyl)

11.



(2E)-6-ethoxy-5-methoxynon-2-en-7-yne

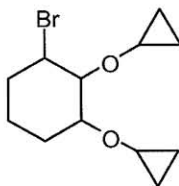
non-2-en-7-yne

(2E)

5-methoxy

6-ethoxy

12.



1-bromo-2,3-dicyclopropoxycyclohexane

cyclohexane

cyclopropoxy

cyclopropoxy

bromo

* Br wins

over cyclo

1-bromo

2,3-dicyclopropoxy

13.



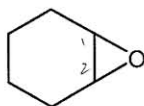
1,2-dicyclopentoxy-3-fluorocyclohexane

cyclohexane

3-fluoro

1,2-dicyclopentoxy

14.

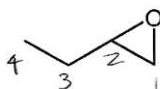


1,2-epoxycyclohexane

cyclohexane

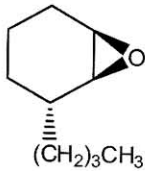
1,2-epoxy

15.



1,2-epoxybutane

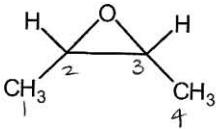
16.



trans-1-butyl-2,3-epoxycyclohexane

cyclohexane * 1-butyl
 trans wins over 2,3-epoxy
 butyl ethoxy

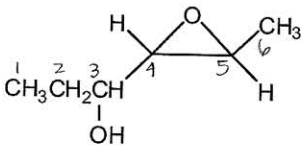
17.



cis-2,3-epoxybutane

butane
 cis
 2,3-epoxy

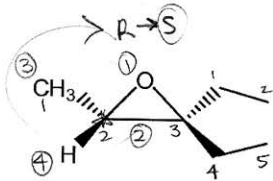
18.



trans-4,5-epoxyhexan-3-ol

hexan-3-ol
 trans
 4,5-epoxy

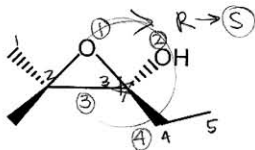
19.



(2S)-2,3-epoxy-3-ethylpentane

pentane
 (2S)
 2,3-epoxy
 3-ethyl

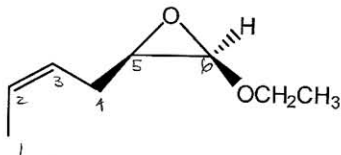
20.



(3S)-2,3-epoxy-2-methylpentan-3-ol

pentan-3-ol
 (3S)
 2,3-epoxy
 2-methyl

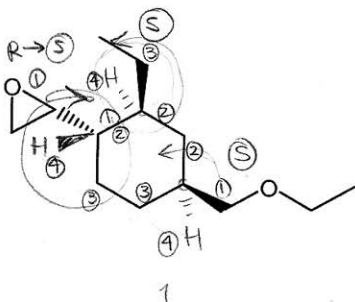
21.



cis-(2Z)-5,6-epoxy-6-ethoxyhex-2-ene

hex-2-ene
 (2Z) cis
 5,6-epoxy
 6-ethoxy

22.



(1S,2S,4S)-1-(1,2-epoxyethyl)-2-ethyl-4-ethoxymethylcyclohexane

cyclohexane
 -ethyl
 -(1,2-epoxyethyl)
 -ethoxymethyl

epo 1-(1,2-epoxyethyl)
 etho 2-ethyl
 ethy 4-ethoxymethyl

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(1S,2S,4S)