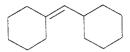
v. syntnesis: 10 Points

From alkanes, alkenes, or alcohols of **two** carbons or less, any oxidizing or reducing agents, and any inorganic reagents, synthesize the compound below.

E. SYNTHESS (10 points)

From cyclohexane, methanol, and any inorganic reagents, synthesize the compound below.



From <u>alcohols</u> of <u>three</u> carbons or less, any oxidizing or reducing agents and any inorganic reagents, synthesize the compound below.

$$\begin{array}{c} \mathsf{O} \\ \mathsf{II} \\ \mathsf{CH_3CH_2CH_2CH-C-CH_3} \\ \mathsf{CH_3} \end{array}$$

Synthesize the molecule below using any of the following reagents: alkanes, alkenes, or alcohols of no more than **three carbons**, any inorganic reagents, any peroxy acids, and any oxidizing or reducing agents.

Synthesize the molecule below using any of the following reagents: alcohols, alkanes, alkenes, and/or alkynes of **two carbons or less**, cyclohexane, any inorganic reagents, any oxidizing or reducing agents, and any peroxyacids.

Synthesize the molecule below using any of the following reagents: cyclohexane, alkenes, or alcohols of **four carbons or less**, cyclohexane, any inorganic reagents, and any oxidizing or reducing agents.

Synthesize the molecule below using any of the following reagents: alcohols and/or alkanes of <u>two</u> <u>carbons or less</u>, cyclohexane, any inorganic reagents, any oxidizing or reducing agents, and any peroxyacids.

Synthesize the molecule below using any of the following reagents: alcohols, alkanes, alkenes, and/or alkynes of **three carbons or less**, cyclohexane, any inorganic reagents, any oxidizing or reducing agents, and any peroxyacids.

Synthesize the molecule below using any of the following reagents: alcohols or alkenes of **three carbons or less**, any inorganic reagents, any oxidizing or reducing agents, and any peroxyacids.

 $\begin{array}{c} \text{O} \\ \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}-\text{C-OH} \\ \text{CH}_3 \end{array}$

Synthesize the molecule below using any of the following reagents: cyclohexane, alkenes, or alcohols of **four carbons or less**, any inorganic reagents, and any oxidizing or reducing agents.

Synthesize the molecule below using any of the following reagents: **cyclohexane**, **alcohols** of **three carbons or less**, any inorganic reagents, and any oxidizing or reducing agents.

Synthesize the molecule below using any of the following reagents: **alcohols, alkanes or alkenes** of **three carbons or less**, any other inorganic reagents, and any oxidizing or reducing agents.

Synthesize the molecule below using any of the following reagents: **alcohols or alkenes** of **four carbons or less**, any other inorganic reagents, and any oxidizing or reducing agents.

Synthesize the molecule below using any of the following reagents: **alcohols** of **four carbons or less**, any inorganic reagents, and any oxidizing or reducing agents.

Synthesize the compound below using any of the following reagents: **methanol**, **cyclohexanol**, any inorganic reagents, and any oxidizing or reducing agents.

$$OH$$
 H_3C
 OH
 OH
 OH

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Synthesize the compound below using any of the following reagents: **cyclohexanol**, alcohols or alkenes of **four carbons or less**, any inorganic reagents, any peroxy acids, and any oxidizing or reducing agents.

Synthesize the compound below using any of the following reagents: **cyclohexanol**, alcohols or alkenes of **four carbons or less**, any inorganic reagents, any peroxy acids, and any oxidizing or reducing agents.

Synthesize the molecule below using any of the following reagents: **alcohols** of **five carbons or less**, any inorganic reagents, and any oxidizing or reducing agents.