



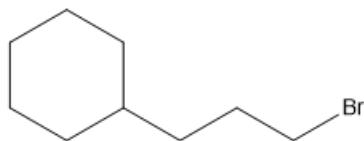
# ORGOREVIEW

## Question Vault

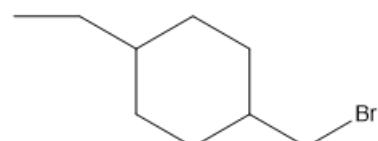
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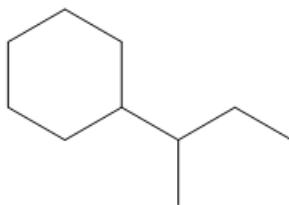
There are four unlabeled bottles that each contains a different alkyl bromide, A-D. Compounds A-D was individually treated in two different reactions. The results are summarized in the table below. Identify the contents of the four bottles and briefly explain.



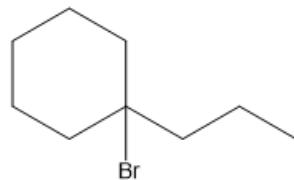
**A**



**B**

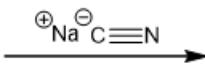


**C**

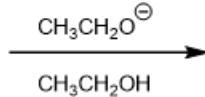


**D**

Reaction 1:



Reaction 2:



	Results of reaction 1	Results of reaction 2
<b>Bottle # 1</b>	Reacts within 5 minutes at room temperature to give a product of molecular formula $C_{10}H_7N$ .	Reaction that gives a product with molecular formula $C_{11}H_{22}O$ .
<b>Bottle # 2</b>	No product with molecular formula $C_{10}H_{17}N$ is formed.	Reaction that gives a product with molecular formula $C_9H_{16}$ .
<b>Bottle # 3</b>	Reacts within several hours at room temperature to give a product of molecular formula $C_{10}H_{17}N$ .	Reaction that gives products with molecular formulas $C_9H_{16}$ and $C_{11}H_{22}O$ .
<b>Bottle # 4</b>	Does not react at room temperature. Reacts upon heating to give a product of molecular formula $C_{10}H_{17}N$ .	Reaction that gives a product with molecular formula $C_9H_{16}$ .

## VIDEO SOLUTION

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