



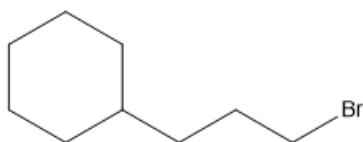
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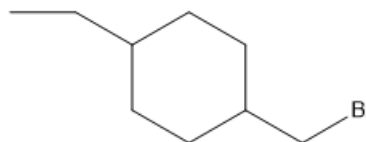
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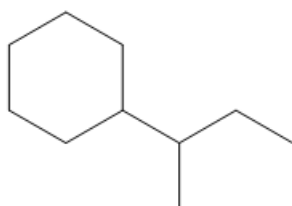
There are four unlabeled bottles that each contains a different alkyl bromide, A-D. Compounds A-D was individually treated in two different reactions. The results are summarized in the table below. Identify the contents of the four bottles and briefly explain.



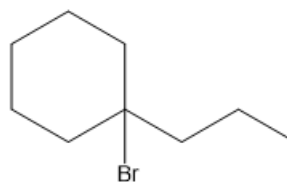
A



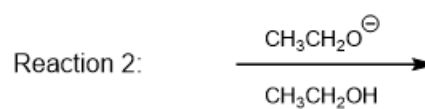
B



C



D



	Results of reaction 1	Results of reaction 2
Bottle # 1	Reacts within 5 minutes at room temperature to give a product of molecular formula $C_{10}H_{17}N$.	Reaction that gives a product with molecular formula $C_{11}H_{22}O$.
Bottle # 2	No product with molecular formula $C_{10}H_{17}N$ is formed.	Reaction that gives a product with molecular formula C_9H_{16} .
Bottle # 3	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 $C_{11}H_{22}O$.
Bottle # 4	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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Todd's Test Prep
 2255 Glades Road
 Suite 324A
 Boca Raton, Florida 33431
 E-mail: help@orgoreview.com

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