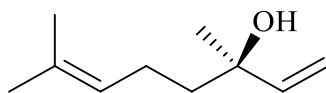


- The structure of (–)-linalool, a commonly occurring natural product, is shown below.



Marks
4

Is it possible to obtain (*Z*) and (*E*) isomers of (–)-linalool? Give a reason for your answer.

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Give the constitutional formula of the organic product formed from (–)-linalool in each of the following reactions. NB: If there is no reaction, write "no reaction".

Reagents / Conditions	Constitutional Formula of Product
Br ₂ (in CCl ₄ as solvent)	
H ₂ / Pd-C catalyst	