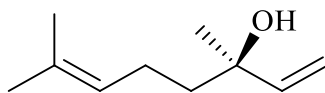


- The structure of (–)-linalool, a commonly occurring natural product, is shown below.



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

Marks
3

Give the structural 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	Structural Formula of Product
Br ₂ (in CCl ₄ as solvent)	
H ₂ / Pd-C catalyst	