

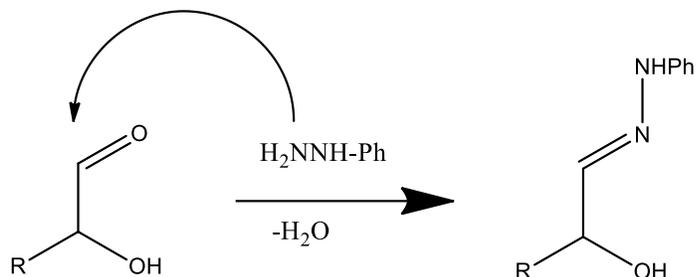
## Answer on Question #54143 – Chemistry – Organic Chemistry

### Question:

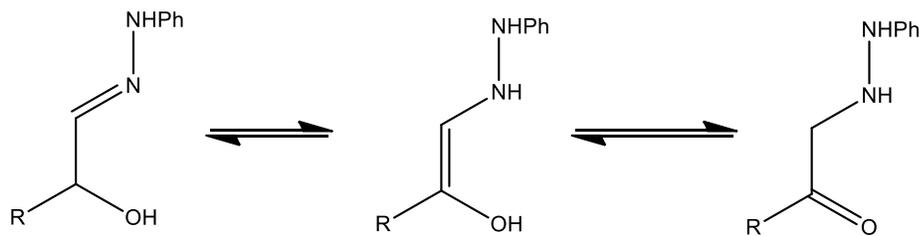
Briefly explained mechanism of formation of osazone.

### Answer:

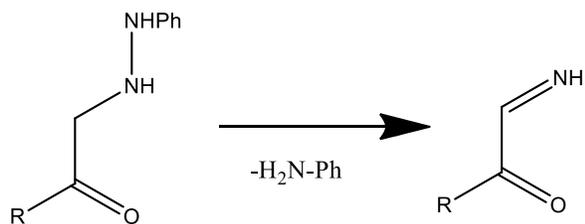
The reaction starts with the nucleophilic attack on an aldehyde group with followed by elimination of water:



Formed hydrazone undergoes intermolecular rearrangement producing a ketone:



The ketone eliminates aniline:



The last stage involves the substitution of the imine group and ketone condensation with two phenylhydrazine molecules giving osazone:

