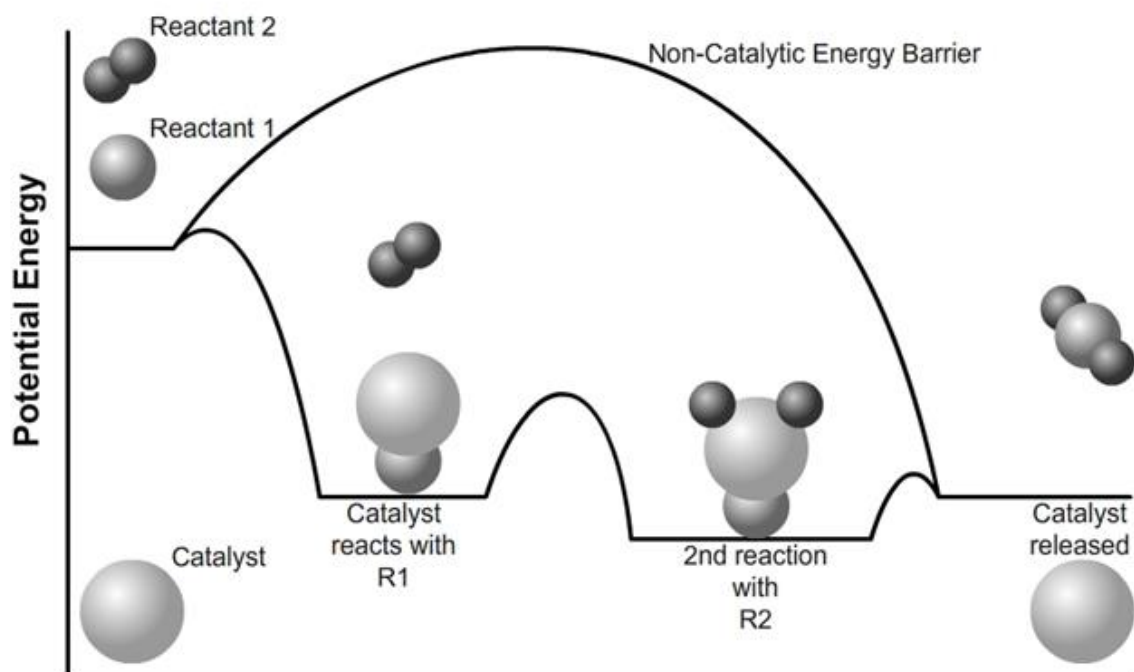


The main properties of catalysts are:

- Only small quantity is need for a reaction.
- They are specific. One catalyst is need for specific reaction (specific type) only.
- Physical properties may change during a reaction but it doesn't take part in the reaction.

Mechanism of catalyst's action:



Alkylation is the transfer of an alkyl group from one molecule to another and carboxymethylation is the introduction of a carboxymethyl group into a compound.

$\text{H}_2\text{SO}_4$  is good catalysts for both of these reactions.