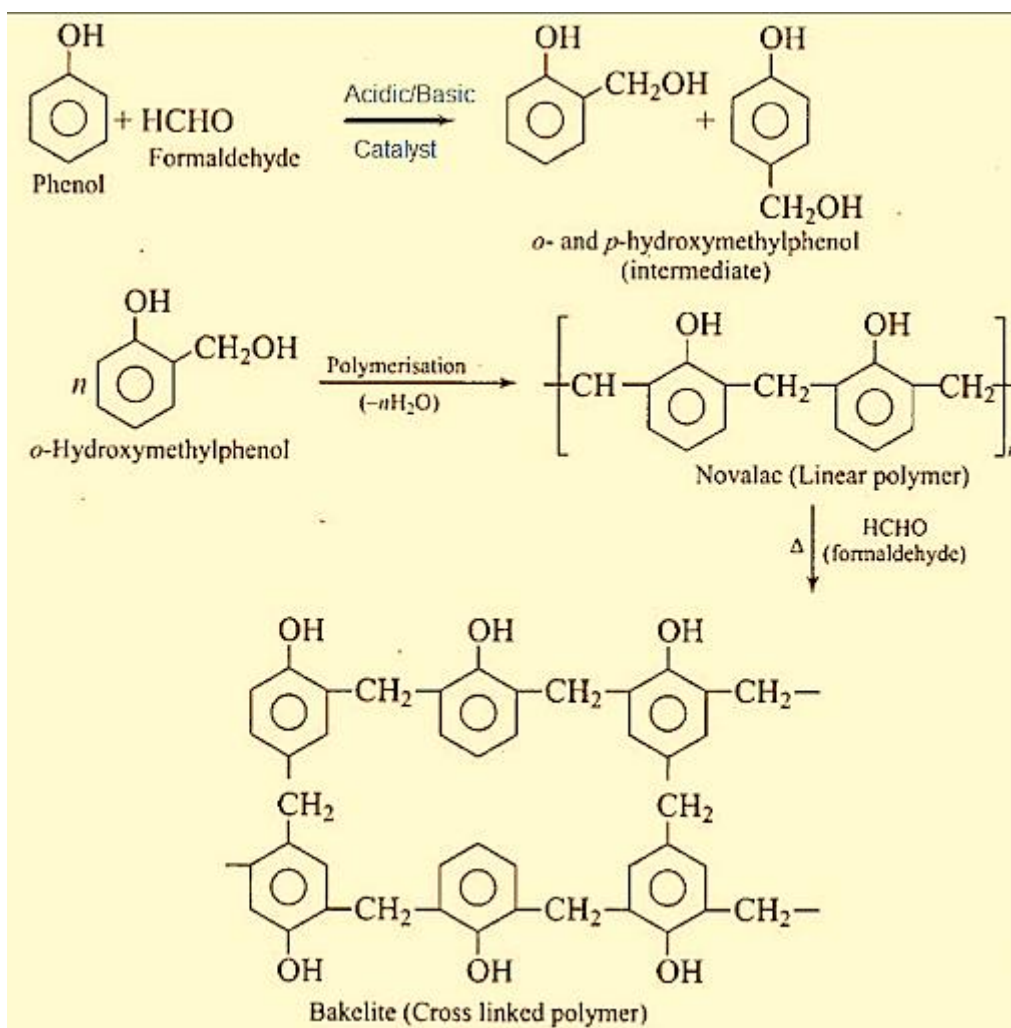




## Bakelite

Bakelite is formed as a result of the condensation reaction between phenol and formaldehyde. Therefore, it is also known as condensation polymer or phenolic resin.



### Properties of bakelite

- Bakelite is the commercial name for phenol-formaldehyde resin which comes in a wide range of vibrant colours and can be moulded quickly..
- It is very resistant to electrical, thermal, and chemical activity. As a result, electronic devices, switches, and car parts are manufactured using bakelite.
- Bakelite is also classified as a thermosetting plastic (i.e once it is moulded it becomes permanently rigid and cannot be remoulded again by heating).



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## Uses of bakelite

- Bakelite is used in the manufacture of a variety of products, including utensil handles, bangles, and vehicle parts.
- It may be dyed into a variety of colours, allowing it to be employed in the creation of vivid and appealing products.
- Bakelite is a good insulator that is used in the manufacture of non-conducting parts of radio and electric devices such as sockets, wire insulation, switches and automobile distribution caps etc.
- It is used in the manufacture of clocks, buttons, washing machines, toys, kitchenware, and other items.