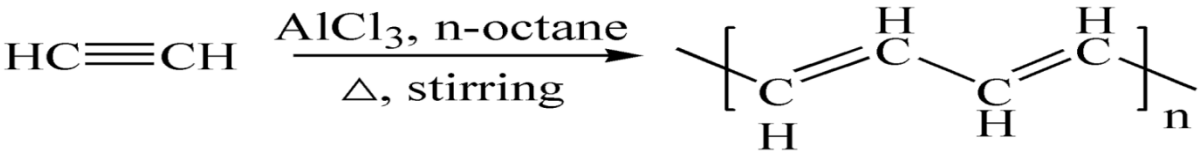
Organic Polymer

Polyacetylene (PA)

Polyacetylene (PA) was synthesized under mild conditions via polymerization of acetylene in n-octane with $AlCl_3$ as a catalyst, Polyacetylene materials were obtained.



Properties

1. Highly conductive material.
2. Depending upon the dopant material its properties also change and also give it tunable properties like electrochemical or optical mechanical properties, etc,
3. Doped polyacetylene have high electrical conductivity

Uses

1. It can be used in electric wiring or electrode material in lightweight rechargeable batteries.
2. It can be used as a sensor to measure glucose concentration.