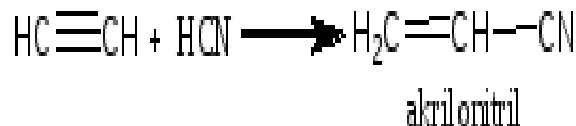


This reaction is called the hydration reaction.

e) The binding of cyanic acid to acetylene is important and is used in industry to obtain acrylonitrile monomer.

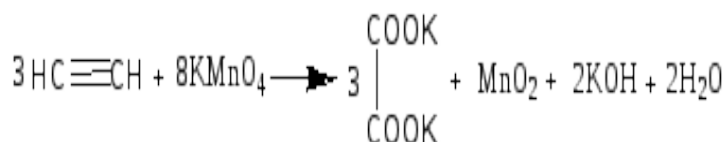


Acrylonitrile is a synthetic fiber used in the textile industry - nitron fiber. Nitron fiber is resistant to mineral oils and gasoline.

2. Oxidation reaction.

Acetylene and alkynes are easily oxidized. Acetylene decolorizes potassium permanganate solution.

Under the influence of strong oxidants, partial or complete oxidation of the triangle in acetylene occurs:

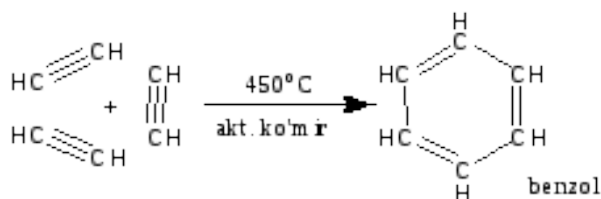


Acetylene burns in oxygen to form a bright flame.

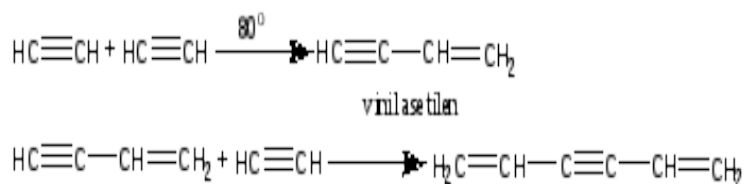


Qadimda atsesilendan yorug'lik manbalari sifatida foydalanilgan. Atsesilen havoda dudli alanga berib yonadi. Uning havo yoki kislorod aralashmasi portlaydi. Atsesilen zarb ta'sirida ham portlashi mumkin shuning uchun uni aseton eritmasi holda g'ovak materiallarga shimdirib bolonlarda saqlanadi va tashiladi.

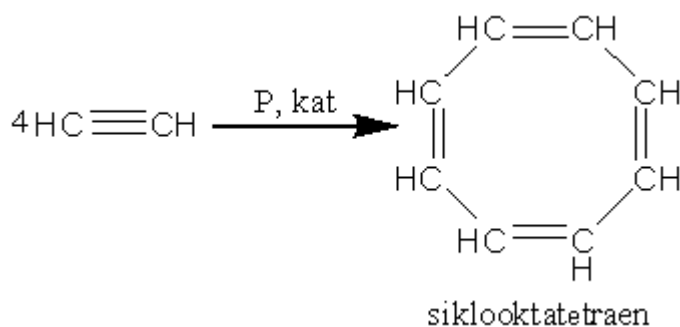
3. Polymerization reaction: When acetylene is passed over activated carbon at 450C, it trims to form benzene.



This reaction was reported by N.D. Zelinsky and B. A. Kazansky. When acetylene is passed through a solution of CH₂Cl₂ and NH₄Cl in HCl at 80C, first a dimer-vinyl acetylene is formed and then a trimer divinyl acetylene.

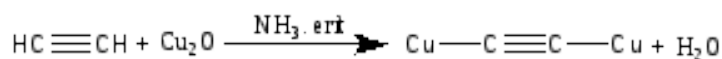
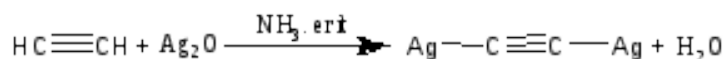


Under pressure, the acetylene catalyzes to polymerize to form cyclooctotetreone.



4. Exchange reaction:

Oxidation reaction; acetylene forms metal acetylenides by exchanging with metals such as Ag, Cu, Na, Zn. Acetylene is stronger than water. If acetylene is exposed to an ammoniacal solution of silver oxide or copper (I) oxide, silver acetylene is formed.



Some acetylenides, for example: Na - C = C - Na, are also called CaC₂ carbides. Silver and copper acetylenides are explosive, for example, the formation of Cu₂C₂ is often used in the qualitative determination of acetylene. Sodium carbide and calcium carbides usually combine violently with water. Calcium carbide is widely used in the production of acetylene in the laboratory and in the autogenous method.

CONCLUSION

In conclusion, acetylene plays a key role in the time of synthesis. **Synthesis** (Greek synthesis - compounding) (in chemistry) Obtaining complex compounds from simpler compounds: especially of great importance in organic chemistry. Major industries, including dyes, plastics, synthetic rubbers, and others, are developing on the basis of organic synthesis.

LIST OF USED LITERATURE

1. www.hozir.org
2. Properties of Acetylene