



Islamic Azad University-Ahar Branch  
The Application of Chemistry in Environment

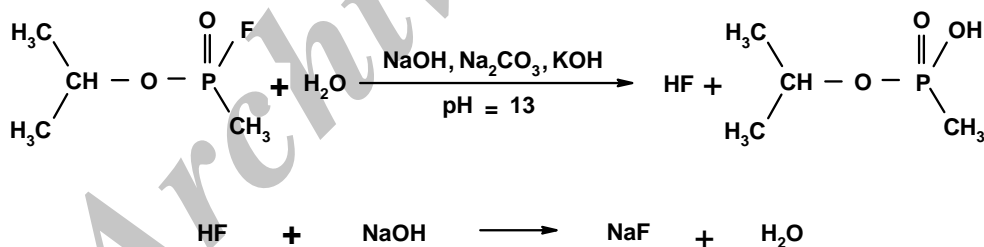
## Neutralization of Sarin Chemical Warfare

Mohammad Hassan Armanmehr

Department of Chemical Technologies, Scientific and Industrial Research Organization, Institute of Chemical Technology, Tehran, Iran  
[vijoe@yahoo.com](mailto:vijoe@yahoo.com)

### Abstract

Sarin chemical warfare has been neutralized by solution of sodium hydroxide, sodium carbonate and potassium hydroxide at room temperatures and pH of 13. The hydrolysis of sarin is increased by increasing of pH, and it is strongly depends on pH. The hydrolysis reaction of sarin is as follows:



**Keywords:** Sarin, Chemical warfare