

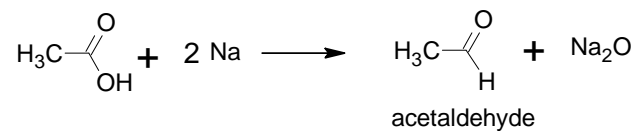
Answer on Question #38231-Chemistry-Inorganic Chemistry

Question

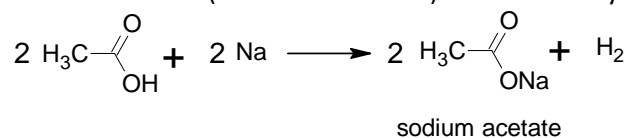
What happens when ethanoic acid reacts with sodium?

Answer

When ethanoic acid reacts with sodium metal, the latter will reduce the ethanoic acid to acetaldehyde:



At this reaction sodium metal is dissolved transforming into sodium oxide. This reaction is dominant. However, sodium ethanoate (or sodium acetate) formation may also occur:



At this reaction sodium metal is dissolved and hydrogen gas is evolved.