

A process for the co-production of acetic acid and dimethyl ether by dehydration-hydrolysis of a feed mixture of methanol and methyl acetate in the presence of at least one catalyst to generate a crude reaction product comprising acetic acid and dimethyl ether wherein the feed to said co-production process comprising methanol and methyl acetate comprises dimethyl ether in a total amount of 25 mol% or less based on the total feed.