
Question 21 (3 marks)

A 0.001 mol L^{-1} solution of hydrochloric acid and a 0.056 mol L^{-1} solution of ethanoic acid both have a pH of 3.0. 3

Why do both solutions have the same pH?

though ethanoic acid is less acidic than HCl
its concentration is much higher \rightarrow which result in the
same pH. Its concentration at 0.056 is
higher than 0.001

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