

ABSTRACT

This attempt was taken in order to estimate the uncertainties associated in acidity determinations. Three titrimetric methods were used. The most important sources of uncertainty, such as, the uncertainty of pH measurements, accuracy of volume measurements and the uncertainty of weighing were discussed using appropriate cause and effect diagrams. It was found from the results that the major contribution towards the final value was from the volume delivery uncertainty. Second major contribution was found to be from the weighing measurements. Finally the combined uncertainty contributions on the final test results of the three methods and the possibility of reducing the overall uncertainty were addressed.