0 5	Ethanedioic acid ( $H_2C_2O_4$ ) is a diprotic acid. Beekeepers use a solution of acid as a pesticide.	this
	A student carried out a titration with sodium hydroxide solution to determine mass of the acid in the solution. The student repeated the titration until concordant titres were obtained.	ne the
	$H_2C_2O_4(aq) + 2NaOH(aq) \rightarrow Na_2C_2O_4(aq) + 2H_2O(I)$	
0 5 . 1	The student found that $25.0~{\rm cm}^3$ of the ethanedioic acid solution reacted completely with $25.30~{\rm cm}^3$ of $0.500~{\rm mol~dm}^{-3}$ sodium hydroxide solution.	
	Calculate the mass, in mg, of the acid in 25.0 cm <sup>3</sup> of this solution.	l marks]
	Mass of acid	mg
0 5 . 2	The student used a wash bottle containing deionised water when approach end-point to rinse the inside of the conical flask.	hing the
	Explain why this improved the accuracy of the titration.	[1 mark]
0 5 . 3	Give the meaning of the term concordant titres.	[1 mark]
		[] -

