

## Determining the concentration of ethanoic acid in commercial vinegar

Brand A vinegar: 700 cm<sup>3</sup>, \$12

Molarity of standard NaOH(aq) = 0.152 M

Titration Table

Titration	Trial	1	2	3
Final burette reading / cm <sup>3</sup>	19.40	21.55	33.90	36.40
Initial burette reading / cm <sup>3</sup>	0.40	4.60	16.85	19.40

1. Calculate the molarity of ethanoic acid in commercial vinegar.
2. Calculate the number of moles of ethanoic acid in 700 cm<sup>3</sup>
3. Calculate the number of moles per unit \$ of Brand A vinegar.
4. If the number of moles per unit & of Brand B vinegar is 0.0500, which Brand is the better buy?