Acidity 56I700110

0 - 7.5 % H_2SO_4

Material

Reagents	Packaging Unit	Part Number
Acidity / Alkalinity P Indicator PA1	65 mL	56L013565
Acidity HR Titrant ACD2	65 mL	56L040865

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

Application List

- Disinfection Control
- Food and Beverage

Notes

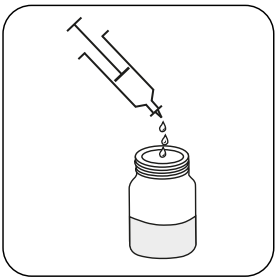
1. Colours may vary depending on sample and test conditions.
2. The P refers to phenolphthalein the indicator originally used for titrating P Alkalinity.
3. The color change occurs at pH 8.3.
4. Less hazardous alternatives are now used.
5. 1 % = 10,000 mg/L
6. [1]Samples of less than 20ml should be diluted to approximately 20 mL with distilled/ deionised water.
7. To convert the result as H_2SO_4 to other acids, multiply the result in %w/v by the relevant factor below:

Sulphamic Acid	2.0
Hydrochloric Acid	0.8
Citric Acid	1.5
Hydrofluoric Acid	0.5
Nitric Acid	1.3
Phosphoric Acid (Acidity to pH8.3)	1
Phosphoric Acid (Acidity to pH4.5)	2

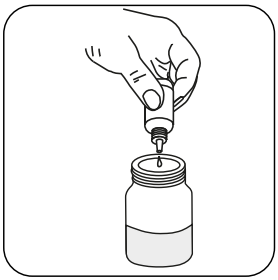
Sampling

Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

Expected Range	Titrant used	Sample Size	Factor
0.10-0.375 %w/v	Acidity HR Titrant ACD2	40 mL	0.0125
0.25-0.75 %w/v	Acidity HR Titrant ACD2	20 mL	0.025
0.50-1.50 %w/v	Acidity HR Titrant ACD2	10 mL[1]	0.05
1.00-3.00 %w/v	Acidity HR Titrant ACD2	5 mL[1]	0.10
2.00-7.50 %w/v	Acidity HR Titrant ACD2	2 mL[1]	0.25



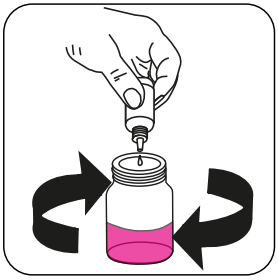
Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.



Add **3** drops of **Acidity/Alkalinity P Indicator PA1** per **20 mL** of sample.

If sample colour turns Pink, report the Acidity as zero.

Attention! Record the number of drops that will be added.
Note: Make sure to swirl the jar after adding each drop!



Add drops of **Acidity HR Titrant ACD2** to give a **pink** colour.

Calculate test result: Acidity (as H_2SO_4) % w/v = Number of drops x factor (see table)