Practical No. 8

Aim: To study the physical and chemical properties of acetic (ethanoic) acid.

Apparatus: Test tubes, test tube stands etc.

Chemicals: Acetic acid, red and blue litmus solutions, sodium bicarbonate.

Procedure:

- 11. Take 2-3ml of acetic acid in a clean, dry test tube. Note down its colour and odour,
- 22. Add 4-5ml water to the acetic acid in the test tube and mix well.
- 33. Take 2ml of acetic acid in a test tube and add blue litmus solution to it. Do the same procedure for red litmus solution. Observe both the test tubes.
- 44. Take 2 ml of acetic acid in a test tube and add a pinch of sodium bicarbonate. Observe.

vation and Inference / Conclusion:

SrNo	Test	Observations	Inference
11	Qdour	Odour like Vinegar	Acetic acid has yinegor. like odour
22	Solubilityiinwater	Acetic acid5.0.luble in water.	Acetic acid is Saluble in water
3	Effect on litmus		
a.	Blue litmus	Turns red	Acetic acid is acid is acid in nature.
b.	Red litmus	Does not change colour	
,4	a. Reaction with sodium bicarbonate	a. Colourless and odourless gas bubbles are evolved	evolved when aces acid reacts with sodiur bicarbonate.
rio.	b. Pass this gas through lime water.	b. At first lime water turns milky, but if the gas is allowed to pass for some more time, the lime water becomes colourless again.	

vinegar is used in each country	of the
world to impart sour toste to food and for preservation of pickets source	materials
and for preservation of pickels souce	, ketchup,
chutenys; etc. chemically vinegar is 4% ocetic acid.	******************

Multiple Choice Questions

1. Vinegar used as preservative for pickles, is % aqueous solution of acetic acid.
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2. Acetic acid looks like ice due to freezing at°C.
a 0 010 C. 17
3. Acetic acid is
a vellowish. D. colourless. C. white d pink
4. The functional group in ethanoic acid is
a. alcohol. b. aldehyde. c. ketone. d. carboxyllic.
5. 2ml ethanoic acid was taken in test tubes - A, B and C. 2ml, 4ml and 8ml of water was added
to the test tubes A, B and C respectively. Which test tube will show clear solution?
a. only A b. only B c. only A and B d. all
: Exercise :
1. Which microbe is used to extract ethanol from fruit juices and sugar molasses?
whith the help at yeast saccharamyces cerevisiae
a ethanol is extracted from fruit Juices and sugar
mala sses.
2. Which main product is obtained by microbial fermentation as ethanol?
Ethanol, an alcahol is obtained by fermentation of
carbon compounds.
a Ci
3. Give examples of beverages and chemicals obtained by microbial fermentation of different
From Loctobacillus brevis coffee' is obtained.
from soccharamyces cerevenisiae cider is obstained.
easily
d
4. Why the Study/ Checking chemical and physical properties of daily used substances/
material is essential?
By checking of chemicals, we can stop the expired
chemicals so it is very useful for mong peoples le,
By checking of chemicals, we can stop the expired chemicals. So it is very useful for many peoples ie, many lives can be saved by cheking the chemicals.
chemicals.
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