

To Improve the pH of Water

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Abstract: — To improve the pH of water by using Cu & Al electrode.

I. INTRODUCTION

i) Acidic Water is a water where pH of water which is less than 7 on pH meter is a Acidic water..

ii) Alkaline water pH of water which is more than 7 on pH meter is aAlkaline water.

1.0 Methods to prepare the Alkaline water.

Some methods are as follows:

- Copper jar treated water
- Chemical injected water
- Traditional methods
- Our new innovated method

a)Copper jar treated water:-

Take water in copper jar & measure the pH note down it as Initial pH. Keep it at it is for next 12 hours. After 12 Hours again measure the pH note down it as final pH.

Initial pH	Final pH
7.2	8.3



It's aAlkaline water. But it is very long process.

b)Chemical injected water:-

Chemical can't make Alkaline water. It only kills the germs

c) Traditional methods:-

There are so many traditional methods.

E.g.1) Add clove in water.

2) Add Rock Salt (Ayurvedic salt) in water.

3) Add leaf of Basil (Tulasi) in water.

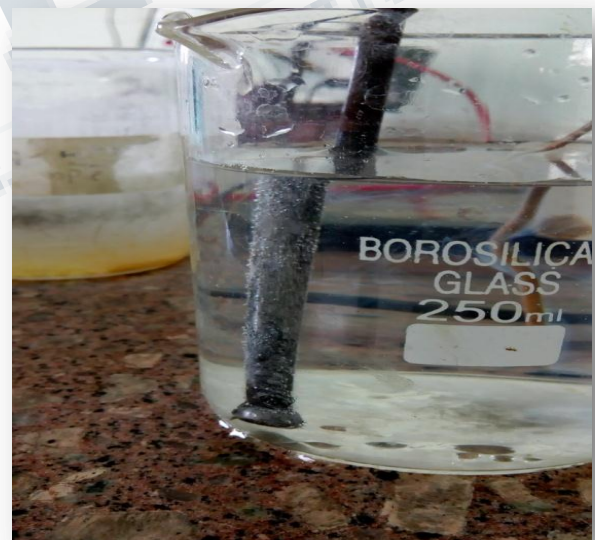
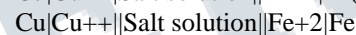
From these methods pH of water slightly increase.

1.1 Our new innovated method:-

By new method we can increase the pH of water in 2 min, Within 2 min we can obtain the Alkaline water. Which is good for living things.

1.2Chemical Process:-

Electrode Reaction:



II. HOW WE CAN IMPROVE PH BY OUR INNOVATIVE METHOD

a. First take glass jar. Poor water in it and measure the pH of that water and note down as a initial pH.



Then take copper electrode and aluminum electrode and deep in glass jar. Give 2V, 3V & 6V supply to the electrode and measure the pH and note down

c. Take new glass jar. Poor water in it and measure the pH of that water and note down as a initial pH.

d. Then take copper electrode and iron electrode and deep in glass jar. Give 2V, 3V & 6V supply to the electrode and measure the pH and note down.



III. BENEFITS OF ALKALINE WATER

- I. The regular drinking Alkaline water can help to prevent diseases related with the bone, such as arthritis, osteoporosis and kidney disorders also.
- II. The regular drinking Alkaline water will slow down the aging process and bone loss.
- III. Drinking alkaline water daily can neutralize the acidity and wash acid waste product.
- IV. Alkaline water helps balance the body’s pH, which becomes to be acidic because our high acid food diet, stress and due to environmental toxins.
- V. Alkaline water has the ability to give up electrons, it can effectively neutralize free radical damage to the body.

3.0.1 Research:-

We all of us use drinking water flow through the iron pipes, its pH become acidic in nature. we use the iron and copper electrode then the pH of water become acidic which is harmful to living things.

When we use the copper and aluminum electrode then the pH of water become alkaline. Instead of that we can use copper insulated pipes

IV. RESULT

Current Supply	Copper & Aluminum electrode		Copper & Iron electrode	
	Initial	Final	Initial	Final
2V	7.3	8.1	7.3	6.3
3V	7.3	8.3	7.3	6.1
6V	7.3	8.4	7.3	5.8

V. CONCLUSION

Copper is the beneficial element to the human health so we can use copper insulated pipes for transferring water and iron should be strictly prohibited.