

## Answer on Question#54729 – Chemistry – Organic chemistry

**Question:** determination of pH of 0.1M 0.05M acetic acid by using quinhydrone calomel electrode

**Answer:**

The determination of pH by using quinhydrone calomel electrode is carried out by standard procedure <sup>[1],[2]</sup> and pH is calculated using equation:

$$pH = \frac{E_{Q/H_2O}^{\circ} - E_{cal} - E}{2.303 \frac{RT}{F}}$$

**References:**

1. Crowther, E. M. (1927), THE QUINHYDRONE ELECTRODE METHOD OF HYDROGEN ION CONCENTRATION MEASUREMENTS. Journal of the Institute of Brewing, 33: 459–463.
2. Exercise 6 POTENTIOMETRIC MEASUREMENT OF pH – laboratory manual (www.fpharm.uniba.sk)

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