Answer on Question #70678 - Chemistry - Inorganic Chemistry

Question:

how many moles of bicarbonate where consumed in a reaction with acetic acid if 0.298 moles of co2 where produced?

Solution:

Reaction between bicarbonate and acetic acid:

$$HCO_3^- + CH_3COOH \rightarrow CH_3COO^- + CO_2 + H_2O$$

From the following reaction one can note, that the mole number of bicarbonate and CO₂ still the same during the reaction pathway.

Answer:

The mole number of bicarbonate consumed in reaction is 0.298 moles

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