

EXPERIMENT NO: SINGLE STAGE LEACHING

Aim: To determine the efficiency of single stage leaching experiment for leaching of NaOH and CaCO_3 .

Apparatus: Glass beakers, glass rod, measuring cylinder and stirrer.

Chemicals: NaOH, CaCO_3 , Phenolphthalein and water.

Procedure:

- Clean all apparatus with water.
- Prepare the mixture for extraction by mixing 5 gm NaOH and 3.5 gm CaCO_3 and transfer it to a beaker.
- Add 200 ml of water into the beaker and stir the solution for about 10 min.
- Allow the mixture to settle and a clear liquid layer will form at the top, this is the extract layer.
- Take 25 ml of the clear solution and titrate it against 0.5 N HCl with phenolphthalein indicator.
- Note down the observation and do the calculation.

Observation:

- | | |
|-----------------------------------|---|
| 1. Weight of feed NaOH | - |
| 2. Weight of feed CaCO_3 | - |
| 3. Weight of solvent (water) | - |
| 4. Volume of clear solution | - |
| 5. Indicator | - |
| 6. Volume of extract | - |
| 7. Titrate reading | - |
| 8. Normality of HCl solution | - |

Calculation:

i. For clear solution normality, $N_1 = \frac{N_2 V_2}{V_1}$

ii. Amount of NaOH in clear solution (extract)

$$= N_1 \times \text{volume} \times \text{gm equivalent of NaOH}$$

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MTO Laboratory Testing Manual Ontario. Ministry of Transportation, 2004 *Proceedings of the 17th International Conference on Alkali-Aggregate Reaction in Concrete* Leandro F.M. Sanchez, Cassandra Trottier, 2024-05-03 This book gathers the peer reviewed papers presented at the 17th International Conference on Alkali Aggregate Reaction in Concrete ICAAR held in Ottawa Ontario Canada on May 19 24 2024 It highlights the latest advances and innovations in the field of internal swelling reactions particularly alkali aggregate reaction AAR and combined mechanisms such as delayed ettringite formation DEF The conference topics encompass understanding the reaction mechanisms and the affecting factors testing methods and preventative measures diagnosis evaluation and prognosis monitoring and NDT structural effects and modeling at all scales repair and remedial measures and combined mechanisms e g DEF The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster new multidisciplinary collaborations

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