

Vika Yulia Anggini. NPM. 16.03.4.1.1.00068. Pengaruh Penambahan BaCl_2 pada Proses Rekristalisasi Terhadap Kualitas Garam. Dibawah bimbingan Dr. H. Agus Romadhon, SP., M. Si.

ABSTRAK

Pemurnian garam bertujuan untuk meningkatkan kualitas garam melalui penambahan BaCl_2 . Penelitian ini untuk mengetahui Kadar H_2O , SO_4 dan NaCl setelah proses pemurnian serta pengaruh penambahan BaCl_2 terhadap kadar senyawa berikut. Metode yang digunakan dalam penelitian ini yaitu *Atomic Absorption Spectrophotometer* (AAS). Hasil dari penelitian menunjukkan kadar air pada garam kontrol sebesar 1,852%, pada purifikasi penambahan 1,25 gr BaCl_2 sebesar 3,531%, pada purifikasi penambahan 2,5 gr BaCl_2 sebesar 2,796%, pada purifikasi penambahan 3,75 gr BaCl_2 sebesar 2,426%. Kadar NaCl pada garam kontrol sebesar 97,11%, pada purifikasi penambahan 1,25 gr BaCl_2 sebesar 97,403%, penambahan 12,5 gr BaCl_2 sebesar 97,988%, penambahan 3,75 gr BaCl_2 sebesar 98,963%. nilai kadar sulfat terbaik terdapat pada penambahan BaCl_2 3,75 gr dengan kadar sulfat pada garam sebesar 0,00019% dengan kadar sulfat pada endapan sebesar 2,046%. Purifikasi dengan penambahan BaCl_2 berpengaruh terhadap peningkatan NaCl .

Kata Kunci: Garam, BaCl_2 , Rekristalisasi, Kualitas Garam.

Vika Yulia Anggini. NPM. 16.03.4.1.1.00043. *Effect of Addition of BaCl₂ on the Recrystallization Process on Salt Quality. Under the guidance of Dr. H. Agus Romadhon, SP.,M.Si.*

ABSTRACT

Salt purification aims to improve the quality of salt through the addition of BaCl₂. This study was to determine the levels of H₂O, SO₄ and NaCl after the purification process and the effect of adding BaCl₂ to the levels of the following compounds. The method used in this study is the Atomic Absorption Spectrophotometer (AAS). The results of the study showed that the water content of the control salt was 1.852%, the purification of the addition of 1.25 g of BaCl₂ was 3.531%, the purification of the addition of 2.5 g of BaCl₂ was 2.796%, the purification of the addition of 3.75 g of BaCl₂ was 2.426%. The concentration of NaCl in the control salt was 97.11%, the purification of the addition of 1.25 g of BaCl₂ was 97.403%, the addition of 12.5 g of BaCl₂ was 97.988%, the addition of 3.75 g of BaCl₂ was 98.963%. The best sulfate value was found in the addition of 3.75 g of BaCl₂ with a sulfate content of 0.00019% in salt and a sulfate level in the precipitate of 2.046%. Purification with the addition of BaCl₂ affects the increase in NaCl.

Keywords: Salt, BaCl₂, Recrystallization, Salt Quality.