

New Vista on Quantitative Analysis of Ammonium Carbonate and Ammonium Bicarbonate Mixture

칸난, 팔라니사미 날라사미, 고빈단 무스라만, 문일식*
순천대
(ismoon@sunchon.ac.kr*)

Amongst the various greenhouse gases emitted into the atmosphere, carbon dioxide emission is the highest in terms of tonnage and has been identified as a predominant source contributing to climate change. Owing to its abundance through anthropogenic sources, it is highly desirable to separate and utilize CO₂ to produce valuable products is emerging area in the field of research. In particular to capture CO₂ and produce an inexpensive nitrogen fertilizer such as ammonium bicarbonate (ABC) is believed to be a feasible approach for CO₂ sequestration. The quantitative analysis of ammonium bicarbonate from other mixtures like ammonium carbonate and ammonium carbamate is mandatory in this process. We have developed conventional volumetric titration method for quantitative analysis of ammonium salt mixtures and will be presented.