

SODIUM ACETATE, SODIUM ETHANOATE $\text{NaO}_2\text{C}_2\text{H}_3$

Typical end products

Pharmaceuticals, photography, dyeing, soaps, in pH control, in foodstuffs, in electroplating

Introduction

Sodium acetate ($\text{NaO}_2\text{C}_2\text{H}_3$) is a colorless crystalline compound, which is known as anhydrous salt or trihydrate.

Application

Sodium hydroxide, or sodium carbonate, reacts in a static mixer with acetic acid to form sodium acetate.


In the manufacturing process, adding water to the final concentration is very important. Final

product concentration measurements have formerly been carried out using titration in laboratory. This technique often gives false readings due to many possible distorting influences. Laboratory measurement is also unable to give a continuous indication of true concentration levels.

Installation

The K-Patents Process Refractometer PR-23-AC is mounted in the circulation loop. Output signals from the K-Patents refractometer are used to control the addition of water to the solution prior to the static mixer, maintaining the final sodium acetate concentration at approx. 7% b.w. The temperature is between 40 and 50°C (104 and 122°F).

An automatic prism wash system with steam is recommended.

Instrumentation	Description
	<p>K-Patents Sanitary Compact Refractometer PR-23-AC for small pipe line sizes of 2.5 inch and smaller.</p> <p>The PR-23-AC sensor is installed in the pipe bend. It is angle mounted on the outer corner of the pipe bend directly, or by a flow cell using a 3A Sanitary clamp or Varivent® connection.</p>
Automatic prism wash:	Prism wash with steam: The components of a steam wash system are a sensor with integral steam nozzle mounted at the flow cell, a shut-off valve for steam line and an indicating transmitter equipped with relays to drive the wash valves.
Measurement range:	Refractive Index (nD) 1.3200 – 1.5300, corresponding to 0-100 % by weight.