



**Overview** The concentration of salt in canned products was determined by the Orion 960 Titrator PLUS using first derivative technique and using 0.1 N silver nitrate as titrant.

<b>Market</b>	Food and Beverage	<b>Species Measured</b>	Chloride
<b>Sample</b>	Canned Products	<b>Sample Size</b>	0.45g
		<b>Typical Concentration</b>	6-7% NaCl w/w
<b>Technique #</b>	6 First Derivative	<b>Electrode</b>	Silver/Sulfide Half Cell Electrode 9416BN. Double Junction Electrode 900200
<b>Solutions</b>	Inner/ Outer Fill Solution 900002/900003; 0.1M sodium chloride (NaCl) 941706; 0.1N Silver Nitrate.		
<b>Solutions preparation:</b>	For 0.1N AgNO <sub>3</sub> : Dissolve 16.986g of silver nitrate in deionized water and dilute to 1000 mL.		
<b>Titrant standardization</b>	Pipet 3.00 mL of 0.100 M standard sodium chloride solution (Orion 941706) into a beaker and add about 50 mL of deionized water. Titrate.		
<b>Sample Prep</b>	Mix sample well and weigh 50g. Blend the sample with 500g of deionized water for 1 min. Weigh 5g of mixture to a 150 mL beaker. Add 50 mL DI water to the same beaker. Titrate.		
<b>Statistics</b>			
<b># of Trials</b>	3	<b>Mean</b>	6.66% w/w
		<b>%CV</b>	0.02%
		<b>Analysis Time</b>	10.0 minute(s).
<b>Comments</b>	Rinse the electrodes, stirrer, and dispenser probe between measurements with deionized water.		

### Method Parameters

<b>Sample Volume/Weight</b>	0.5 g	<b>Timed or Stability Readings</b>	10.0 mV/min stability
<b>Constant Increment</b>	10.0 mV	<b>Number of Endpoints</b>	1
<b>Max Titrant Volume</b>	10.0 mL	<b>Desired Units</b>	% w/w
<b>Molecular weight</b>	58.50	<b>Predose</b>	none
<b>Prestir</b>	1.0 second(s)	<b>Additional Parameters</b>	
<b>Reaction Ratio</b>	1.00		