

## Method Abstract #87

### Vitamin C

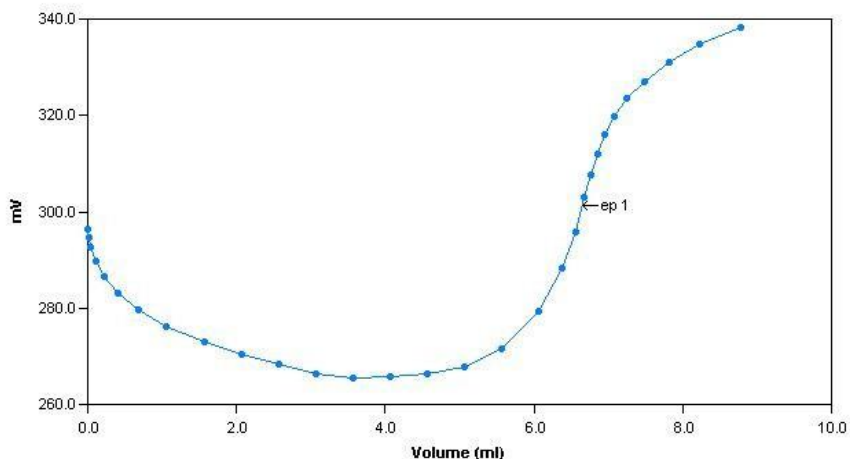
#### Scope and Application

This method determines the ascorbic acid content of aqueous solutions. This method conforms to AOAC Official Method 967.21.

#### Method Summary

This method involves the preparation of a 2:5 solution of ascorbic acid and metaphosphoric acid-acetic acid. This is done by combining the ascorbic acid sample with metaphosphoric acid-acetic acid. The 2:5 sample solution is then titrated to an inflection endpoint with Indophenol. The ascorbic acid content can then be calculated.

#### Sample Titration Curve



#### Method Performance

Parameter	Specification
Measuring Range*	10 – 1000ppm
MDL**	10ppm
RSD @ 10ppm	0.99% or +/- 0.1ppm
RSD @ 100ppm	1.47% or +/- 1.47ppm
RSD @ 1000ppm	0.395% or +/- 3.95ppm

\*Data for this measuring range was obtained using laboratory prepared standards formulated from potassium chloride. The measuring range may be increased by using auto-dilution.

\*\*The Method Detection Limit (MDL) was determined based on data obtaining a coefficient of variance better than 30%. Results may differ depending on laboratory practices and sample matrix.