DENVER INSTRUMENT



Tartaric Acid in Wine

Instrumentation

Denver Instrument Model 350 titrator

25 ml burette with 0.1 M NaOH

Method

1) Add 5 grams of white wine to titration vessel.

2) Add sufficient DI H2O (which does not affect the results) to immerse the pH electrode and temperature probe.

3) Use Denver Instrument Balance PI214 (a class A volumetric pipette will also work).

Results

Sample 1 = 6.613000 g/L
Sample 2 = 6.577000 g/L
Sample 3 = 6.599000 g/L
Sample 4 = 6.560000 g/L

Mean (average) = 6.587250 g/L
STD Deviation = 0.020302
% rSTD Deviation = 0.308208
Average analysis time = 2 minutes

Sample Printout

Sample ID:	White
Burette serial no :	K0567
Reagent:	NaOH
Batch no.:	125897
Titre:	0.10000 mol/l
Entered the:	27 Apr 2005
Certificate no.:	
Electrode:	300731.1
Serial number:	C0434058691
Last calibration:	27 Apr 2005
pH0(25):	6.940 pH
Sensitivity:	99.0 %
Temperature:	T201-a
Serial number:	ATC69876
Test no.	1: 5.0845 g
EP1:	4.480 ml 8.200 pH
Result accepted	
Time :	21h34
Duration :	1min28s
Initial measure:	3.501 pH
Temperature:	22.9 øC
NaOH mls ->	EP 8.2: 4.480 ml
	(4.480 ml)
	OK
Tartaric Acid:	6.613 g/L
	OK