

Application Note

Determination of ethanol concentration in disinfection solution by Alcohol meter

Industry	:	Chemical
Instrument	:	Alcohol meter
Measurement method	:	Resonant frequency oscillation

1. Scope

This is an example about determination of the ethanol concentration with volume percent in commercial disinfection solution. The alcohol meter can be used enough for determination of pure ethanol concentration on production process.

Note: this measurement result does not completely match the label value of disinfection solution because the commercial products contain additives like water, glycerin, etc.

2. Apparatus

- Alcohol meter ALM-155



3. Sample

- Disinfection solution

4. Reagent

- Pure water

5. Procedure

- 1) Place sampling nozzle into beaker.
- 2) Click a button to load sample and start measurement.

6. Measurement results

	Alcohol (vol%) at 20°C	S.G. (t/t)	Density (g/cm ³)
1	71.5	0.8832	0.8816
2	71.5	0.8832	0.8816
3	71.5	0.8832	0.8816
Mean	71.5	0.8832	0.8816
SD	0.00	0.00	0.00
RSD(%)	0.00	0.00	0.00