



## Application Note: Low viscosity liquids, volatile solvents, acids

**Objectives:** In this note, low viscosity liquids, volatile solvents, and acids are tested with *microVISC* to demonstrate the accuracy, easy-of-use, and throughput.

**Liquids:**

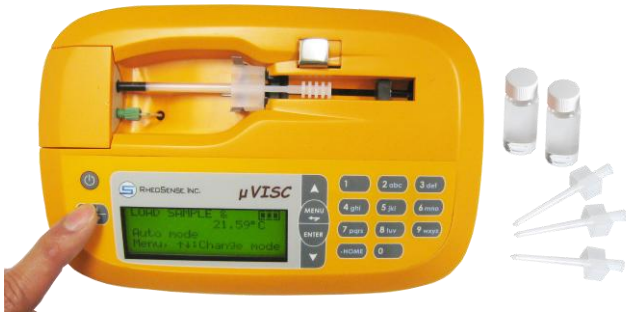
- Ethyl Acetate
- Distilled water
- Aquet 1%
- Ethanol
- Acetic Acid 99.99%
- Nitric Acid, 70%
- Isopropyl alcohol

**Measurement steps:**

1. Sample loading into a disposable pipette



2. Testing (Auto and Advanced mode)



3. Cleaning (cleaning mode)

There is no need to clean the chip after testing a pure liquid. However, cleaning with water is

recommended after testing too acidic and too basic liquids.

**Results:** Test was performed at ambient conditions with HA01-01 chip.

	Temp, °C	measured viscosity, mPa-s	Ref. viscosity, mPa-s
Ethyl Acetate	22.01	0.440	0.439
Distilled water	22.04	0.958	0.955
Aquet 1%	22.5	1.022	
Ethanol	21.97	1.147	1.137
Acetic Acid 99.99%	22.05	1.191	
Nitric Acid, 70%	22.09	1.934	1.930
Isopropyl alcohol	22.06	2.262	2.231

Reference values are from CRC Handbook with Arrhenius-like temperature dependence.

**Summary:**

- *microVISC* measures accurate viscosity for low viscosity liquids.
- Accurate measurements of corrosive liquids are also ensured with enhanced safety.
- All measurements take 1 minute or less.

If you have questions or need more information about this product or other applications, please contact us:

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