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	Aim:
	To determine surface tension of given liquids by drop count method.
	Référence:
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	Requirement:
(a)	Apparatus: Pycnometer, Stalagmometer, Pifette, Thermometer, Analytical balance, Weight bon, beaker, etc.
(b)	Chemicals: > Distilled water.
	Theory:
	Surface tension: This property of liquids arises
	from the intermolecular forces of attraction.
	A molecule in the interior of a liquid is attracted equally in all directions by
	the molecules around it.
	Its SI unit is newton per nete (Nm-1).
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	Surface Tension Determination methods:		
	The methods commonly employed for the of surface tension are:		ination
1.	Capillary rise method a Single capillary rise method Double capillary rise method		
2.	Drop formation method (a) Drop me number method (b) Drop weight method		
3.	Ring- detachment method		
4.	Maximum bubble pressure method		
۲, ک	Wilhelmy place method.		
6.	Pendant drop method.		
	Procedure:		
1.	Thoroughly clean pyrnometer and stalagmo with chromic acid and wash two limes fresh distilled water.	meter with	
2.	Stalagmometer must be fixed in a vertical using stand.	positie	271
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Observations:

- 1. Room temperature = °C
- 2. Weight of Empty bycnometer = W1.
- 3. Weight ob Pycnometer + Distilled water = W2
- 4. Weight of Pycnometer + Liquid = W3.

-iquids	Number of doops				Specific gravity	Surface
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Calculations:

- 1. Weight of liquid = W3 WI.
- 2. Weight of distilled water = W2-W1
- 3. Specific gravity of liquid = (W3-W1)

$$Y_2 = \frac{P_2 n_1}{P_1 n_2}$$

Calculate surface tension of other liquids by substituting data in place of distilled water using same equation.

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3.	Fill water in stalagmometer up to mark A and count total number of drops formed brom mark A to B.
	Repeat step 3 at least 3 times for accuracy.
5.	Wash stalagmometer using same liquid of which surface tension is to be determined.
6.	Repeat step 3, 4, 5 for other chemicals.
7.	Determine density of liquids by using fynometer.
	Result:
	Surface tension of the given liquid has been determined in the laboratory successfully.
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