



Do your first measurement of Surface tension

Select Surface tension menu

Prepare your sample. Clean it with Ethanol to insure no dust or contamination

Clean your syringe first with Ethanol, then with liquid to be used ( fill it up 3 times)

Fill up your liquid inside the syringe.

Insure no bubble inside the syringe to avoid leak during the measurement.

Place your syringe in the aluminium block syringe then place it in the Aluminium Bloc Syringe Holder.

Click on View > Focus Assistance and insure the number to the right is the highest possible and the value of number at the left very close from this number. Desactivate it.

Enter the density of your liquid

Click on Measure > Height – Width Calibration and calibrate your pixel by using the needle of the syringe.

Once this is has been done go back to view and click on View > Volume estimation

Press the syringe slightly to get a volume to be displayed on the screen . if it doesn't display anything, means that the ambient light might be a problem

Please correct it by turning off the light or other ways.

Once the droplet is done adjust the volume to 5.5  $\mu\text{l}$  if the estimated ST is above 50 mN/m and 3.2  $\mu\text{l}$  if it is below.

Make a photo and then select the Young-Laplace equation to get your results.

If the value is in red it means that the droplet was oscillating during the measurement or light conditions were not good: too bright

This is your first surface tension result