WZZ-2B 型自动旋光仪

1. 向上打开电源开关。这时钠灯在交流状态下起辉，仪器预热 20 分钟。
2. 打开光源开关。如果钠光灯熄灭，开关应该上下反复扳动一到二次。确保钠灯在直流电条件下点亮。
3. 按“**测量**”键，此时显示屏应有数字显示。

   注意：开机后“测量”键只需按一次。如果误按此键，则仪器停止测量，液晶屏无显示。可再次按“测量”键。当显示屏有显示后重新校零。
4. 将包含空白溶剂的试管放入样品室，盖上箱盖，待示数稳定后，按“**清零**”键。试管中若有气泡，应将气泡浮在凸颈处；用软布擦干通光面两端的雾状水滴。试管螺帽不要拧得太紧以免影响读数。试管安放时应注意标记的位置和方向。
5. 取出试管。将待测样品注入试管，按相同位置和方向放入样品室内，盖好箱盖，仪器将显示该样品的旋光度，此时指示灯“1”点亮。

   注意：试管内腔应用少量被测试样冲洗 3-5 次。
6. 按“**复测**”键一次，指示灯“2”点亮，表示仪器显示第一次复测结果，再次按“**复测**”键，指示灯“3”点亮，表示仪器显示第二次复测结果。按“123”键，可切换显示各次测量的旋光度值。按“平均”键，显示平均值，指示灯“AV”灯点亮。
7. 仪器使用完毕后，应依次关闭光源和电源开关。

WZZ-2B Automatic Polarimeter

1. Turn on the power switch: The sodium lamp should light up. The instrument should be pre-warmed for 20 minutes.
2. Turn on the light source switch: When the DC switch has been pulled up, if the lamp goes out, the DC switch should be pulled up and down repeatedly for one or two times, so as to make the sodium lamp light up under DC condition.
3. Press the "**Measure**" button, the LCD indicate the digit**s.**
   Remark: Pressing the "Measure" button only need once. If you press it by mistake, the instrument will stop measuring and the LCD no display. The user should press the "Measure" button again, after that the LCD will re-work. Now you should calibrate zero again.
4. Put the test tube containing blank solvent into the sample chamber, and close the cover. After the indicating value has got stabilized, press the "**clear**" button. If there are air bubbles in the test tube, the first thing should be done is to make the air bubbles float on the protruded tube-neck. The atomized water-drops on the both ends of the test tube should be wiped dry. The screw-nut of the test tube should not be screwed down too tightly, so as to avoid stress; otherwise, the readings may be affected.
5. Take out the test tube, then, inject the sample to be measured into the test tube. According to the same position and direction, put the test tube into the sample chamber, then close the cover. Now the instrument will indicate the optical rotation of the sample, the diode "1" light.
   Remark: Use the sample to wash the tube (inside) three or five times before measurement.
6. Press the "Re-M" (repetition- measurement) button once, the diode "2" light, the instrument display the result of 1st repetition-measurement, press the "Re-M" button again, the diode "3" light, display the result of 2nd repetition-measurement, press the "1 2 3" button, shift display the values of measurement each time, press the "Average" button, display the value of average, the diode "AV" light.
7. Turn off the measurement switch, light source switch and power supply switch step by step when the measuring process is over.

Function

The polarimeter is a kind of instrument for measuring the optical rotation of a substance. Through measuring the optical rotation, the polarimeter can be used to analyze the concentration, content, and purity of a substance. This instrument is also suitable to the sample of low optical rotation which is difficult to be analyzed by visual polarimeter. Therefore, it can widely be used in various fields of the organic chemical industry.