

OPTICAL ACTIVITY AND POLARIMETRY

Name:

Group:

Date:

1. Goal of the experiment:

.....

2. Thickness of the optically active layer $l \pm \Delta l =$

3. The zero layout of the polarimeter (zero calibration procedure):

	1	2	3	4	5	$\bar{\phi}_0$
ϕ_0						

4. Results of measurements of the dependence of the angle of rotation of the plane of polarization on the solution concentration:

	Concentration c	Angle ϕ of rotation of the plane of polarization				
		ϕ_1	ϕ_2	ϕ_3	$\bar{\phi}$	$\phi = \bar{\phi} - \bar{\phi}_0$
1						
2						
3						
4						
5						
c_x						

The error of the concentration of the solution $\Delta c =$

Error of the angle of rotation $\Delta \phi_1 =$

Make a graph of the angle of optical rotation ϕ versus concentration c .

