## **OPTICAL ACTIVITY AND POLARIMETRY**

		Name:						•••••		
							Group:	Group:		
							Date:			
1. G	oal of the ex	periment	:							
э т	h:al:::acc af th		الد معدد	o lover I   A	,					
	hickness of th	-		•						
3. T	he zero layoι —	it of the p	oolarim	eter (zero ca	libration p	rocedur	re):			
			1	2	3	4	5	$\overline{\phi}_0$		
		$\phi_0$								
				•	nce of the	angle of	frotation	of the plar	ne of polarization	
0	n the solution	1	tration:							
	Concentration $c$ $\Delta c^*$			Angle $\phi$ of rotation of the plane of polarization						
				$\phi_1$	$\phi_2$		$\phi_3$	$\overline{\phi}$	$\phi = \overline{\phi} - \overline{\phi}_0$	
	unit	u	nit							
1										
2										
3										
5										
C <sub>X</sub>										
*	$\Delta c = \dots$					•				
* $\Delta c =$										
IV	1ake a graph	or the rui	ιτετιστί ς	<i>γ</i> – <i>J</i> (C).						
5. The slope <i>a</i> of the best–fit straight line:										
a	$a \pm \Delta a = \dots$									
6. S	pecific rotation	on:								
$\left[ a ight] _{\lambda}=$										
Δ	$\Delta[a]_{\lambda} = \dots$	formu	la and value							
[0	$\left[\alpha\right]_{\lambda} \pm \Delta \left[\alpha\right]_{\lambda} =$	• • • • • • • • • • • • • • • • • • • •								

7.	Unknown concentration $c_x$ of the solution:
	a) from the graph $\phi$ = $f$ (c)
	$c_{x} \pm \Delta c_{x} = \dots$
	b) calculated (on a basis of the slope):
	$c_{\rm x} =$
	$\Delta c_{_{\mathrm{x}}} = \dots $ formula and value
	$c_{\rm x} \pm \Delta c_{\rm x} = \dots$
	Conclusions: