

CONTENT

1 CURRENT STATE OF THE ART.....	6
2 AIMS OF THE THESIS	8
3 EXPLORATION OF THE PRODUCTION SYSTEM.....	9
3.1 Modeling of the partial oxidation of glycerin.....	10
3.2 Kinetics model for glycerin oxidation - non linear model.....	13
4 ANALYSIS OF THE OXIDATION OF GLYCEROL CONSIDERING CONSECUTIVE REVERSIBLE REACTION	16
5 SELECTED PROCESSING METHODS.....	20
6 MAIN RESULTS.....	22
6.1 Chromatographic method development.....	22
6.2 Analysis of cyclic voltammetric data.....	23
6.3 Oxidation at controlled potential by multiple pulse amperometry	24
6.4 Evaluation of kinetic parameters using mathematical statistic method.....	25
7 CONTRIBUTION OF THE THESIS TO SCIENCE AND PRACTICE	29
8 CONCLUSIONS.....	32
9 LITERATURE.....	34
LIST OF AUTHOR PUBLICATIONS	35
CURRICULUM VITAE OF AUTHOR.....	38