

## **ABSTRACT**

Production of oxygen-containing compounds of chlorine. Using of chlorates in the chemical industry. Calculation of the bipolar electrolyzer type KhTB-1 with current load of 50 kA and DSA anodes.

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Course work is devoted to the study of electrochemical production of chlorates. Physical and chemical properties of chlorate, their using in chemical industry and methods of production are considered. Selected and described electrolyzer type KhTB-1 and technological schemes of sodium chlorate. Calculated electrolyzer with current load of 50 kA. Calculated balances of current, voltage and power, heat and material balances and expenditure ratios.

ELECTROLIZER TYPE KhTB-1, CHLORATES, SODIUM CHLORATE, DSA ANODES, BALANCE OF CURRENT, BALANCE OF VOLTAGE, BALANCE OF POWER, MATERIAL BALANCE, HEAT BALANCE, EXPENDITURE RATIOS.