Abstract. Kinetics of sunflower oil is investigated at different temperatures for Volumetric installation. The data on the oxidation rate and speed of oil self-initiation are obtained. Prediction method of the storage period is developed. The method has the following advantages: allows you to define the term pressed together shelf life form; forecasts for periods of storage do not refer to temperature and for anyone, it is possible to give broad guidelines store chains; the required amount of research can be conducted within couple days rather than months, dramatically reducing costs; the study is low-cost, because it does not require expenses on reagents.

Keywords: oxidation, prediction of the retention period.