

## Comparative analysis of powerintensity of processes of purifying of hydrocarbonic gases from sulfur-containing impurities using solid and liquid sorbents

© Yuri M. Mikhailov,<sup>1\*</sup> Rosa F. Gatina,<sup>1\*</sup> Zalimkhan K. Omarov,<sup>2+</sup>  
Sergey V. Astakhov, and Aleksei I. Hatsrinov

*"State Research Institute of Chemical Products" Federal State Enterprise (FSE). Svetlaya St., 1. Kazan, 420033. Russia.* <sup>1)</sup> Phone: +7 (843) 544-07-21. E-mail: [giihp@bancorp.ru](mailto:giihp@bancorp.ru).

<sup>2)</sup> Phone: +7 (843) 541-76-02. E-mail: [omarov@mail.ru](mailto:omarov@mail.ru)

\*Supervising author; <sup>+</sup>Corresponding author

**Keywords:** sorbent, ethanolamines, hydrogen sulfide, gas purifying.

### Abstract

A comparative analysis of an effectiveness of purifying of hydrocarbonic gas from sulfur-containing compounds using solid and liquid sorbents was made. Calculations and comparison of power consumptions necessary for purifying the gas from sulfur-containing compounds using solid and liquid sorbents were carried out.