Registration Code of Publication: 14-38-6-77 Publication is available for discussion within the functioning of the permanent internet-Conference "New methods of synthesis, structure and application of organoelemental compounds" http://butlerov.com/synthesys/ Contributed: August 15, 2014.

A method for purifying casing-head gas from hydrogen sulfide

© Yuriy M. Mikhailov,¹* Rosa F. Gatina,¹* Zalimkhan K. Omarov,²⁺ Sergey V. Astakhov, and Aleksey I. Hatsrinov

"State Research Institute of Chemical Products" Federal State Enterprise (FSE). Svetlaya St., 1. Kazan, 420033. Russia. ¹⁾ Phone: +7 (843) 544-07-21. E-mail: gniihp@bancorp.ru. ²⁾ Phone: +7 (843) 541-76-02. E-mail: omarov@mail.ru

*Supervising author; ⁺Corresponding author Keywords: complex compound, sorbent, hydrogen sulfide, gas purifying.

Abstract

A catalyst for hydrogen sulfide oxidation has been obtained. This catalyst includes a complex compound with the formula MgCl₂·AlCl·3Et₂O (where Et₂O – diethyl ether) based on a solid porous carrier. A series of experiments for studying its catalytic properties was carried out.