

Liquid-Phase Aerobic Oxidation of Petroleum Hydrocarbons in the Catalytic Presence of Nanosized Complexes

V.M. Abbasov, L.M. Afandiyeva*, L.H. Nuriyev, F.N. Seyidahmadova, B.M. Aliyev, E.Sh. Abdullayev

Institute of Petrochemical Processes named after acad. Yu.H. Mamedaliyev, Azerbaijan National Academy of Sciences

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Abstract: Liquid-phase aerobic oxidation of hydrocarbons naphthenic-paraffinic concentrate 217-349°C of Azerbaijan oils blend diesel fraction in the presence of pentanuclear complexes of Cr, Co, Ni and their mixtures with Zn, Cr salts of natural petroleum acids (MeNPA) has been conducted. Dimensions of crystal structure of catalytic complexes was measured by diffractometer NONIUS CAD4 and calculated with aid of NRCVAX¹¹ program. The surface of the crystals was analyzed by atomic-force (scanning probe type) microscope SZLM. There have been studied the dependence of yield of petroleum acids on the composition of the catalized. The largest yields of synthetic petroleum acids (SPA) are observed for the catalysts which was taken as mixture. The varying ratio of MeNPA:Complex:Me (Me-metal) significantly affects the performance of the process. Combined use of the catalysts leads to the synergetic effect. The most optimal ratio of catalysts is established as ZnNPA+comp.Co = 2 : 1 (0.1 + 0.05wt.%) and CrNPA+comp.Co = 2 : 1 (0.1 + 0.05wt.%), with yields 22.2% and 23.4% of SPA. Along with petroleum acids the SPA contain also fatty acids of isostructure. The results obtained are recommended for realization in an industrial scale for SPA production.

Keywords: Diesel fraction, petroleum hydrocarbons, liquid-phase oxidation, catalysts of oxidation, synthetic petroleum acids

1. Introduction

Oxygen compounds of oil origin are important precursors and products of fine and heavy organic syntheses. Broad areas of natural petroleum acids (NPA) use explain the continued interest in receiving them. However, the maximum amount of NPA in petroleum does not exceed 2-3% wt. The oxidizing transformation of petroleum hydrocarbons to afford respective oxygen containing compounds is estimated as effective approach to the rational processing of oil hydrocarbons raw stock [1-4]. Synthetic petroleum acids (SPA, including oxyacids, OSPA) obtained by this type of hydrocarbons oxidation are welcomed to be full-fledged substitutes for naturally occurring petroleum acids. The chemical structure of SPA allows to produce a variety of commercially valuable derivatives so that a claim to the SPA manufacturing is an urgent issue of the present day. It is known that oxidation of naphthenic-paraffinic hydrocarbons of petroleum fractions is the most promising way of synthesis synthetic petroleum acids [5-13]. The works on creation of new selective catalysts possessing high activity for oxidation of oil fractions are continued. Thus, the synthesis of the SPA with a high-yield is of a great practical importance, and accordingly we involve a naphthenic-paraffinic

Corresponding author:

Lala Afandiyeva, Ph.D., Institute of Petrochemical Processes named after acad. Yu.H. Mamedaliyev, Azerbaijan National Academy of Sciences. E-mail: afandiyevalm7@mail.ru.

Oxidation Of Hydrocarbons In The Liquid

A.E. Shilov



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