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High-purity solvent preparation technology for use in the manufacture of synthetic rubbers

Sadrieva F., Lamberov A., Ziyatdinov A., Sitnikova E., Gil'manov K., Trifonov S., Diyarov I.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

A technological flowsheet is proposed to obtain a solvent for synthetic rubber production. According to that flowsheet, a high-purity solvent is obtained by rectification and catalytic hydrofining of the C5-C8 fraction using a reactivated alumina-platinum isomerization catalyst. The new method makes it feasible to reach a high removal rate for such solvent microimpurities as sulfur-containing, unsaturated and aromatic compounds. It also makes it possible to obtain several target products at the same time. Such deep purification is the main advantage of the proposed method over currently known methods of producing polymerization solvents.