

SYNTHESIS METHOD COMPOSITIONS OF UREA GREASES

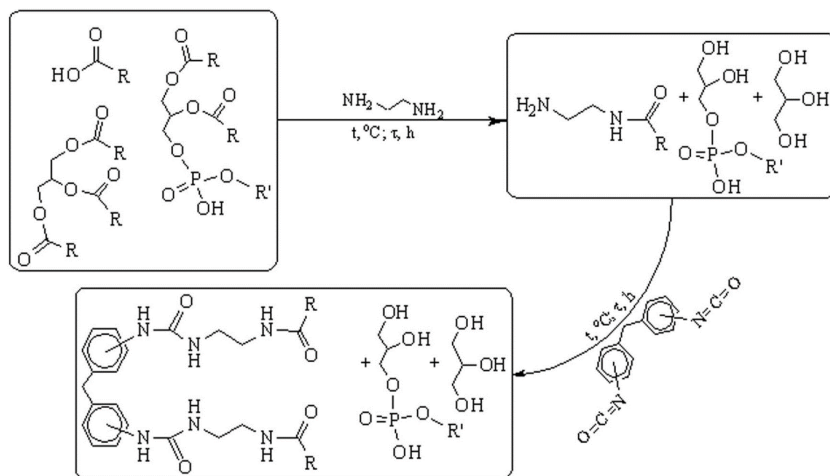
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A method of synthesis and technology for obtaining urea greases based on secondary oil and fat raw by amidation with ethylenediamine with subsequent condensation with polyisocyanate have been developed. By means of derivatographic analysis it is established that the upper temperature limit of application of the synthesized greases makes 180–200 °C and allows to carry them to high-temperature greases [1–3].

The reaction mechanism for the production of urea greases based on secondary oil and fat raw materials is as follows:



Physico-chemical and operational tests of the developed greases show that they are resistant to mechanical destruction, have protective and tribological properties. Improved performance of urea greases based on secondary oil and fat raw is achieved without the use of any additional functional additives.

References

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