

## SYNTHESIS OF AMINES BASED ON HIGHER FATTY ACID NITRILE

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### ABSTRACT.

Chemical substances extracted from plants are widely used in various fields of the chemical industry. Aliphatic amines also have various applications, including in the chemical industry as a foaming flotation agent in the production of potassium chloride. In the article, acid amides and nitriles were synthesized on the basis of distilled (containing C<sub>16</sub>-C<sub>18</sub> carbon atoms) fatty acids (DFA) isolated from the waste of oil plants (soapstock). The resulting nitrile was hydrogenated with hydrogen at a pressure of 60 MPa to obtain primary aliphatic amines with a purity of 98%. The composition of the synthesized compound was confirmed by GX-MS chromatography and infrared spectrum.

**Keywords:** distilled fatty acids, amide and nitrile of carboxylic acids, aliphatic amines, nickel, aluminum oxide, hydrogenation reaction, catalyst, fluororeagent.

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