

**Название публикации:**

Conformational Transformations of  $\epsilon$ -Caprolactam as an Advantage in the Production of Molecular Complexes Used in Adhesive Technology

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**Аннотация:**

The conformations of the  $\epsilon$ -caprolactam molecule were calculated using a software package, and three of its conformers were established. It is shown that the conformational change of molecules creates the prerequisites for organizing the nearest contact and strong hydrogen bonds of  $\epsilon$ -caprolactam with molecules of other substances. The molecule of  $\epsilon$ -caprolactam can be “adapted to a neighbor” to a greater degree, since it can take a different, more advantageous conformation to provide the necessary contact. With the use of  $\epsilon$ -caprolactam, molecular complexes have been obtained that have found application in the production of adhesives for rubber–cord systems. © 2018, Pleiades Publishing, Ltd.

**Ключевые слова:**

adhesive composition, chloroprene glue, conformations, energy, eutectic melt, rubber–cord composite,  $\epsilon$ -caprolactam