

## Dipole moments and structure of adducts of acrylonitrile with cyclic dienes

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### Abstract

1. An adduct of acrylonitrile with furan was synthesized. 2. The stereochemistry of the diene synthesis of acrylonitrile with various cyclic dienes was studied by the method of dipole moments; in the presence of a strongly polar group in the diene, adducts are formed possessing smaller dipole moments and corresponding to the principle of the least dipole moment in the orientation complex. 3. The dipole moments of the adducts of acrylonitrile with relatively nonpolar dienes, possessing an exostructure, are lower than the moments of the endo-isomers. © 1965 Consultants Bureau Enterprises Inc.

<http://dx.doi.org/10.1007/BF00854855>

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