

Bulletin of the Academy of Sciences of the USSR Division of Chemical Science 1983 vol.32 N11,
pages 2295-2299

Reaction of 2,4,6-triisopropyl-1,3,5-dioxaphosphorinane with phenyl azide

Arbuzov B., Erastov O., Ignat'eva S., Komanova I., Ovodova O., Arshinova R.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. The reaction of 2,4,6-triisopropyl-1,3,5-dioxaphosphorinane with phenyl azide yields 5-phenylamino-2,4,6-triisopropyl-1,3,5-dioxaphosphorinane and 5-phenylimino-5-phenylamino-2,4,6-triisopropyl-1,3,5-dioxaphosphorinane in yields depending on the reagent ratio. 2. The stereoisomer with axial orientation of the amino group predominates in the equilibrium of 5-phenylamine, 5-diethylamino-, 5-piperidino-, and 5-morpholino-2,4,6-triisopropyl-1,3,5-dioxaphosphorinane and their sulfides. © 1984 Plenum Publishing Corporation.

<http://dx.doi.org/10.1007/BF00954712>
