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UDC 542.91+661.718.4+547.239.2

The action of nitriles on triallylboron gives, with yields of more than 90%, derivatives of 2,2,4,4tetraallylcyclodiborazane (II) which are stable in the air, and which, in their turn, on being heated (100°) are converted completely into substituted 1,3-bis-(diallylmethyl)-2,4-diallyl-1,3-diaza-2,4-diboretidines (III):



The structures of compounds (II) and (III) were confirmed by analysis, a determination of the molecular weights, their IR and PMR spectra, and also by measuring their dipole moments. (II) ($R = C_6H_5$), m.p. 105° (from methanol). Found %: C 81.16; H 8.45; B 4.93; mol. wt. 451. $C_{32}H_{40}B_2N_2$. Calculated %: C 81.03; H 8.50; B 4.56; mol. wt. 474.3. (III) ($R = CH_3$), b.p. 134-134.5° (1.5 mm), nD²⁰ 1.4997, d_4²⁰ 0.895. Found %: C 75.64; H 10.25; B 6.18; mol. wt. 348. $C_{22}H_{36}B_2N_2$. Calculated %: C 75.45; H 10.36; B 6.18; mol. wt. 350.2. (III) ($R = C_6H_5$); m.p. 61° (from isopentane). Found %: C 81.13; H 8.40; B 4.35; mol. wt. 467. $C_{32}H_{40}B_2N_2$. Calculated %: C 81.03; H 8.50; B 4.56; mol. wt. 474.3.

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