## ACTION OF ETHYL MERCAPTAN ON TRIALLYBORON

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We found that triallylboron reacts with ethyl mercaptan at -15°, and with equimolecular amounts of the reagents we obtained propylene and the ethyl ester of diallylthioboric acid in 62.5% of theoretical yield; b.p. 67-70° (11 mm); d<sub>4</sub> 0.8419; n<sub>D</sub><sup>20</sup> 1.4719. Found: C 62.70; H 10.05; B 6.86%; MR 51.24. C<sub>8</sub>H<sub>15</sub>BS. Calculated: C 62.36; H 9.81; B 7.02%; MR 51.28.

The action of 2 moles of ethyl mercaptan on 1 mole of triallylboron formed: 1) the diethyl ester of allylthioboric acid in 51.8% of theoretical yield; b.p.62-64° (2 mm);  $d_4^{20}$  0.9563;  $n_D^{20}$  1.5182. Found: C 48.60; H 8.66; B 6.39%; MR 55.20.  $C_7H_{15}BS_2$ . Calculated: C 48.28; H 8.68 B 6.21%; MR 55.76.2) the product from the addition of ethyl mercaptan to the double bond of the diethyl ester of allythioboric acid in 31.8% of theoretical yield; b.p. 133.5-134° (2 mm);  $d_4^{20}$  1.0076;  $n_D^{20}$  1.5312. Found: C45.97; H 8.91; B 4.58%; MR 72.57.  $C_9H_{21}BS_3$ . Calculated: C 45.75; H 8.96; B 4.58%; MR 73.47.

We established that the latter compound may be obtained in 77.4% of theoretical yield by mixing ethyl mercaptan with the diethyl ester of allylthioboric acid. Ethyl mercaptan is also capable of adding to the di-n-butyl ester of allythioboric acid to form the di-n-butyl ester of 2-ethylmercapto-n-propylboric acid with b.p. 104-106° (1.5 mm); d<sub>4</sub><sup>20</sup> 0.9035; n<sub>1</sub><sup>20</sup> 1.4514.

Found: C 60.22; H 11.18; B 4.20%; MR 77.62. C<sub>18</sub>H<sub>29</sub>BO<sub>2</sub>S. Calculated: C 59.99; H 11.23; B 4.16%; MR 77.44.

## CORRECTIONS

In No. 5 (1960) p. 811, the expression in the third column of the table should read: [k.10<sup>13</sup>] in cc·sec<sup>-1</sup>.

On p. 951 the first formula from the top should read:

$$HC \equiv C - \left(C \equiv C - C \right)\right)\right)\right)\right)\right)\right)\right)\right)\right)\right)\right)$$

In No. 10 on p. 1821 formula (II) should read: