## SOME NEW AMINOTHIAZOLES

THE discovery by Smirk and McGeorge¹ of the remarkable blood pressure raising property of S-methylthiourea sulphate and the discovery by Rose et al² of the promising local anæsthetic property of thiazole derivatives led us to the synthesis of a few new compounds of types (A) and (B) which could be considered as cyclised derivatives of both S-methylthiourea and of aminothiazole and hence would be possible pressor anæsthetics.

Following the known methods  $^{3,4,5,6}$  compounds 1, 2, 3, and 4 (Table 1) were prepared by refluxing phenacylbromide with m-and-p-nitro as well as o-methoxy-phenythioureas and  $\beta$ -naphthyl thiourea respectively and isolating the products and purifying them from suitable solvent. The action of thiourea on 3:4:5—triacetoxy  $\omega$ -bromoacetophenone led to the formation of 4- (3':4':5') triacetoxy-phenyl-2-aminothiazole which was isolated as its hydrobromide 5 (Table I) the base being unstable. The reaction of phenyldithiobiuret with phenacyl-and  $\beta$ -napthacylbromides even when conducted in monomolecular proportions led to the formation of substituted 2-thiazolyl 2'-iminothiazolines (1 and 2, Table II) of type (B).

TABLE I

I ADDE I										
No.	R <sub>1</sub>	$ m R_2$	m.p. °C.	Empirical formula	Nitrogen Per cent					
					Found	Calculated				
1 2 3 4 5	$C_6H_5 C_6H_5 C_6H_5 C_6H_5 C_6H_5 3:4:5-(CH_3CO\cdot O)_3C_6H_2-$	m-C <sub>6</sub> H <sub>4</sub> NO <sub>2</sub> ρ-C <sub>6</sub> H <sub>4</sub> NO <sub>2</sub> ο-C <sub>6</sub> H <sub>4</sub> OCH <sub>3</sub> β-C <sub>10</sub> H <sub>7</sub>	165 202 195 127 171	$C_{15}H_{11}O_{2}N_{3}S$ $C_{15}H_{11}O_{2}N_{3}S$ $C_{16}H_{14}ON_{2}S$ $C_{19}H_{14}N_{2}S$ $C_{15}H_{15}O_{6}N_{2}S$ Br	14·1 13·6 10·0 9·1 6·5	14·1 14·1 9·9 9·2 6·5				

TABLE II										
No.	R <sub>1</sub>	R.	m.p. °C.	Empirical	Nitrogen Percentage					
				formula	Found	Calcu lated				
1 2	С <sub>6</sub> Н <sub>5</sub> β-С <sub>10</sub> Н <sub>7</sub>		227 242	$\substack{C_{24}H_{17}N_3S_2\\C_{32}H_{21}N_3S_2}$	10·2 8·2	10·2 8·2				

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<sup>1.</sup> Smirk and McGeorge, Lancet, 1942, 243, 301.
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