

MeOH). Found: N 10.51, 10.60%. Calculated for $C_{18}H_{16}N_2$. N 10.76%. Ie. $R_1=R_2=CH_3$, $R_3=H$, yield 69%, mp 96° (ex MeOH). Found: N 14.02, 14.16%. Calculated for $C_{13}H_{14}N_2$. N 14.13%. If. $R_1=H$, $R_2=C_6H_5$, $R_3=CH_3$, yield 78%, mp 167° (ex EtOH). Found: N 10.44, 10.53%. Calculated for $C_{18}H_{16}N_2$. N 10.76%. Ig. $R_1=R_2=R_3=CH_3$ (perchlorate), mp 194–195° (ex glacial AcOH). Found: Cl 11.51, 11.52%. Calculated for $C_{14}H_{16}N_2 \cdot HClO_4$. Cl 11.34%.

REFERENCES

1. P. M. Kochergin, A. A. Druzhinina, and R. M. Palei, KhGS [Chemistry of Heterocyclic Compounds], 149, 1966.

2. F. S. Babichev and V. K. Kiberev, ZhOKh, **33**, 2000, 1963.
3. F. S. Babichev and V. K. Kiberev, ZhOKh, **33**, 3646, 1963.
4. V. K. Kiberev and F. S. Babichev, Ukr. khim. zh., **30**, 488, 1964.
5. F. S. Babichev, V. K. Kiberev, and L. G. Khil'ko, Ukr. khim. zh., **32**, 64, 1966.
6. F. S. Babichev, 2-Benzothiazolylalkyl(aryl)carboxylic Acids, and Their Application in the Synthesis of Heterocyclic Rings with a Bridge Nitrogen Atom, Abstract of Doctoral Thesis, 22, 1965.

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Shevchenko Kiev State University

ELEMENTARY CELL PARAMETERS OF OME 1-ORGANYLSILATRANES

Ya. Ya. Bleidelis

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With a view to discovering the most suitable objects for investigating the crystal structure of silatranes synthesized by M. G. Voronkov

Elementary Cell Parameter of 1-Organylsila-

R	tranes $RSi(OCH_2CH_2)_3N$				N
	a, Å	b, Å	c, Å	β	
CH ₃ —	7.54	9.73	14.16	126.6°	4
CH ₃ CH ₂ —	9.33	16.45	6.65		4
(CH ₃) ₂ CH—	9.52	17.12	6.85		4
CH ₂ =CH—	9.61	30.53	6.62		8
C ₆ H ₅ —	13.09	18.37	10.02		8
C ₆ H ₅ O—	13.64	8.41	10.83		4

and G. I. Zelchan [1–3], we have determined by X-ray analysis the parameters and translation groups of the elementary cells of 1-methyl-, 1-ethyl-1-isopropyl-, 1-vinyl-, 1-phenyl-, and 1-phenoxy-silatranes.

The numbers of molecules (N) in the elementary cells of the crystals were calculated from the parameters. The elementary cells of the crystals of all the compounds investigated are simple. The table gives numerical values of the parameters of the elementary cells.

REFERENCES

1. M. G. Voronkov and G. I. Zelchan, KhGS [Chemistry of Heterocyclic Compounds], 51, 1965.
2. M. G. Voronkov and G. I. Zelchan, KhGS [Chemistry of Heterocyclic Compounds], 210, 1965.
3. M. G. Voronkov and G. I. Zelchan, Author's Certificate, 162139, 1964.

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Institute of Organic Synthesis, AS Latvian SSR, Riga