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Studies on Thiazoline and Thiazolidine Derivatives. XI¹⁾.
Synthesis of 3-N-alkylthiocarbamoyl-2-alkyliminothiazolidines*

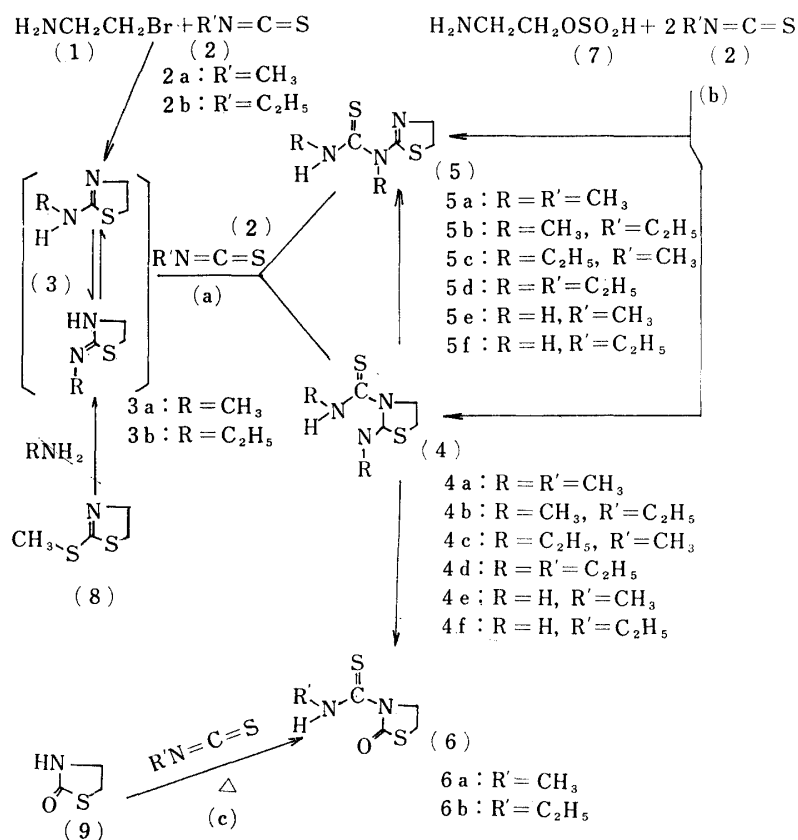
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The compounds synthesized through the route (a) and the route (b) as shown in Chart 1 have been assigned by S. Gabriel in the past and by E. Cherbuliez, et al. recently to Type A, N-alkyl-N'-alkyl-N'-(2-thiazolin-2-yl) thiourea (5).

We had some doubt in the structure of the above compounds synthesized through the route (a) and (b), so they were hydrolyzed with 15% H₂SO₄ to give Type B, 3-N-alkylthiocarbamoyl-2-oxothiazolidine (6) which was assigned with infrared spectrum (IR), Mass Spectra and nuclear magnetic resonance (NMR) data and confirmed by synthesis of 6 through the route (C).

Thus, it was confirmed that the compounds obtained by our synthesis through



* 本報告は Chem. Pharm. Bull., (Tokyo), **23**, 2135 (1975) に発表.

1) Part X: Y. Yamamoto and R. Yoda, Bull. Kyoritsu Pharm. College, **18**, 53 (1973).

the route (a) and (b) possessed the Type B structure ; 3-N-alkylthiocarbamoyl-2-alkyliminothiazolidine (4), instread of the Type A structure.

The data for ultraviolet spectrum (UV), IR, MS and NMR are shown in Table I, II and III.