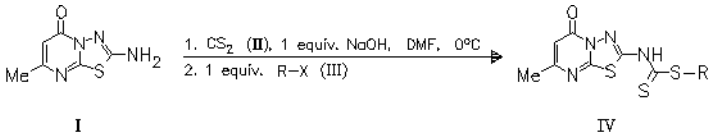
fused pyrimidine derivatives

R 0515

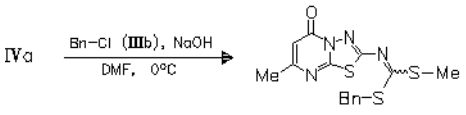
13 - 207

Reaction of 2-Amino-7-methyl-5-oxo-5H-1,3,4-thiadiazolo(3,2-a) pyrimidine with Carbon Disulfide and Alkylation of Its Products. — Reaction of the title heterocycle (I) with CS2 in alkaline solutions provides alkali salts of dithiocarbamic or iminodithiocarbonic acids depending on the molar ratio of substrates to alkali. They are smoothly converted into the corresponding esters (IV) or (VI), resp., upon direct alkylation. The synthesis of unsymmetric diesters such as (V) can be easily achieved from monoesters (IV). — (SHUKUROV, S. SH; ARTYKOVA, D. A.; KUKANIEV, M. A.; ZAKHAROV, K. S.; NASYROV, I. M.; OSIMOV, D. M.; Izv. Akad. Nauk, Ser. Khim. (1994) 8, 1479-1481; Inst. khim. im. Nikitina Akad. nauk Resp. Tajikistan, Dushanbe 734063, Tajikistan; RU)

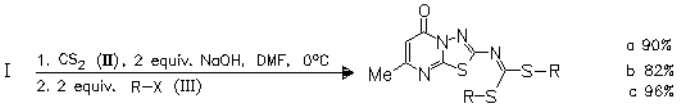


I IV

a R: –Me; X: –I 95%
b R: –Bn; X: –Cl 96%
c R: $-CH_2-CH=CH_2$; X: –Br 82%



V 63%



a 90%
b 82%
c 96%

VI