

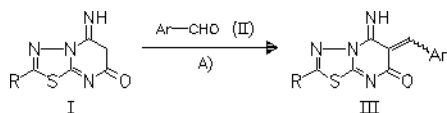
thiazine derivatives

R 0610

42 - 167

**Synthesis of 1,3,4-Thiadiazolo[3',2':1,2]pyrimidino[5,6-d]-1,3-thiazine Derivatives.**

— The synthesis of derivatives of the title thiadiazolopyrimidinothiazine system [cf. (V), (VII)], a new tricyclic ring system, by base-mediated reaction of thiadiazolopyrimidinones (I) with aldehydes (II) and subsequent cycloaddition of the condensation products (III) formed with CS<sub>2</sub> is described. — (KUKANIEV, M. A.; SHUKUROV, S. SH.; NUROV, U.; KHODZHIBOEV, YU.; Russ. Chem. Bull. 48 (1999) 2, 364-366; Nikitin Inst. Chem., Acad. Sci. Rep. Tadzh., Dushanbe 734063, Tajikistan; EN)

A): Et<sub>3</sub>N (cat.), DMF, EtOH, 50–60°C

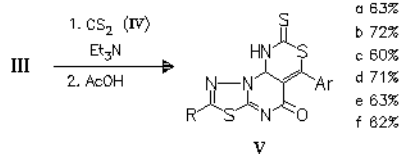
a R: -H; Ar: -Ph 78%

b R: -Me; Ar: -Ph 82%

c R: -H; Ar: 4-F-C<sub>6</sub>H<sub>4</sub> 77%d R: -Me; Ar: 4-F-C<sub>6</sub>H<sub>4</sub> 87%

e R: -H; Ar: 2-furyl 81%

f R: -Me; Ar: 2-furyl 92%



a 63%

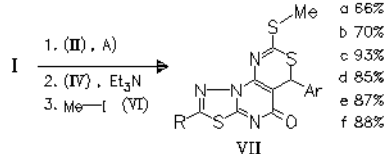
b 72%

c 60%

d 71%

e 63%

f 82%



a 66%

b 70%

c 93%

d 85%

e 87%

f 88%