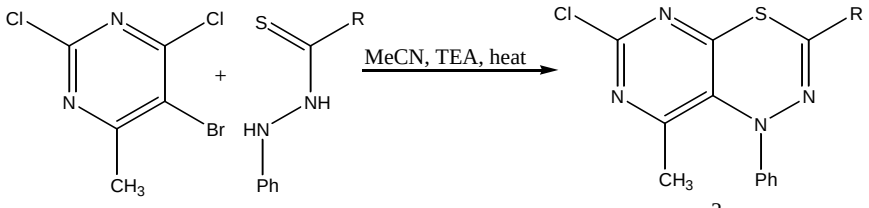
TITLE :A CONVENIENT SYNTHESIS OF NEW PYRIMIDO[5,4,-B][1,3,4] THIADIAZINES

AUTHOR(S): NIKPOUR M. *, BAKAVOLI M. AND RAHIMIZADEH M.
ADDRESS:DEPARTMENT OF CHEMISTRY, SCHOOL OF SCIENCES, FERDOWSI UNIVERSITY, MASHHAD

Synthesis of pyrimido[5,4,-b]1,3,4 thiadiazine is limited to only one patent literature of A. J. Eliot[1]. Recently we exhibited a new approach for the addition of 1, 3, 4 thiadiazine to quinoxaline moiety[2]. Now we have extended this strategy as an efficient and a general procedure for the synthesis of pyrimido[5,4-b][1,3,4] thiadiazines. Hence a group of alkyl-2-phenylhydrazinecarbodithioates 2 were reacted with newly synthesized[3] 5- bromo- 2,4-dichloro -6- methylpyrimidine 1. The structural assignments of these compounds are based on the spectral and microanalytical data.



1 2

R=a: SMe, b: SEt, c:SPr^n, d: SBu^n, e: SCH_2Ph, f:N=N-Ph

3

R=a: SMe, b: SEt, c:SPr^n, d: SBu^n, e: SCH_2Ph, f:N=N-Ph

Refrences:

[1] Eliot, Arthur John Chem. Abs. 87, P153420, 1977.
[2] M. Bakavoli, M. Nikpour and M. Rahimizadeh Phosphorus Sulfur and Silicon and the Related Elements, 180, 10, 2265
[3] New access to thiazolo[4,5-d]pyrimidine derivatives. M. Bakavoli, M. Nikpour and M. Rahimizadeh. accepted for publication to Journal of Heterocyclic Chemistry.