

Heterocycles, **55**, 1919-1926 (2001).

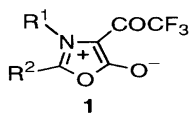
HETEROCYCLIZATION OF 4-TRIFLUOROACETYL-1,3-OXAZOLIUM-5-OLATES WITH 1,4-BIS-NUCLEOPHILES

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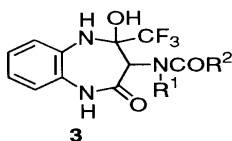
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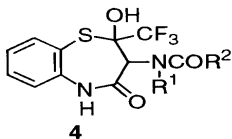
Reactions of aromatic 1,4-*bis*-nucleophiles such as *o*-phenylenediamine and *o*-aminothiophenol, with mesoionic 4-trifluoroacetyl-1,3-oxazolium-5-olates (**1**) gave regiospecifically seven member trifluoromethylated heterocycles such as 1,5-benzodiazepines (**3**) and 1,5-benzothiazepines (**4**). The reaction with *o*-aminophenol afforded non-cyclized products (**5**). The structures of **3**, **4**, and **5** were established by X-Ray diffraction analysis.



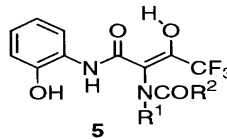
- 1**
a: R¹=Me, R²=4-MeOC₆H₄
b: R¹=Me, R²=Me
c: R¹=Bn, R²=Me
d: R¹=Ph, R²=Me
e: R¹=Me, R²=Ph



- 3**
a: R¹=Me, R²=4-MeOC₆H₄
b: R¹=Me, R²=Me
c: R¹=Bn, R²=Me
d: R¹=Ph, R²=Me
e: R¹=Me, R²=Ph



- 4**
a: R¹=Me, R²=4-MeOC₆H₄
b: R¹=Me, R²=Me
c: R¹=Bn, R²=Me
d: R¹=Ph, R²=Me



- 5**
a: R¹=Me, R²=4-MeOC₆H₄
b: R¹=Me, R²=Me
c: R¹=Bn, R²=Me
d: R¹=Ph, R²=Me