

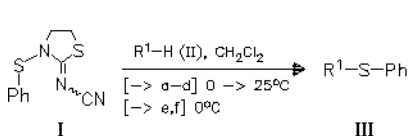
mercaptans, thioethers (benzene compounds)

Q 0580

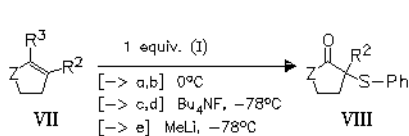
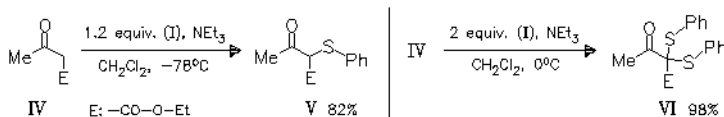
17-093

A New Sulfenylation Reagent, 3-Phenylsulfenyl-2-(N-cyanoimino)thiazolidine, and Its Optically Active Version.

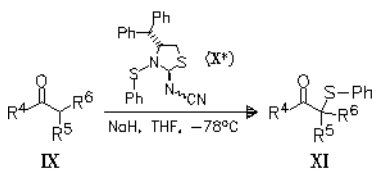
The title thiazolidine (I) is found to be an excellent sulfenylation reagent for amines, thiols, carbonyl compounds, and their derivatives. The optically active thiazolidine (X) allows asymmetric α -sulfenylation, but the level of enantioselectivity strongly depends on the educt structure. — (TANAKA, TETSUAKI; AZUMA, TSUTOMU; FANG, XIE; UCHIDA, SHUJI; IWATA, CHUZO; ISHIDA, TOSHIMASA; IN, YASUKO; MAEZAKI, NAOYOSHI; Synlett (2000) 1, 33-36; Grad. Sch. Pharm. Sci., Osaka Univ., Suita, Osaka 565, Japan; EN)



- | | |
|--|------|
| a R ¹ : -NH-Et | 93% |
| b R ¹ : -NH-Bn | 93% |
| c R ¹ : -NH-Ph | 90% |
| d R ¹ : -N | 90% |
| e R ¹ : -S-Et | 95% |
| f R ¹ : -S--Me | 100% |



- | | |
|--|-----|
| a R ² : -H; R ³ : -N-; Z: -CH ₂ - | 72% |
| b R ² : -H; R ³ : -N-; Z: -(CH ₂) ₂ - | 83% |
| c R ² : -Me; R ³ : -O-Tms; Z: -(CH ₂) ₂ - | 76% |
| d R ² : -H; R ³ : -O-Tms; Z: -(CH ₂) ₃ - | 95% |
| e R ² : -H; R ³ : -O-Tms; Z: - | 67% |



- | | |
|--|----------------|
| a R ⁴ , R ⁵ : -Me; R ⁶ : -E | 84% (23% e.e.) |
| b R ⁴ -R ⁵ : -(CH ₂) ₄ -; R ⁶ : -E | 83% (85% e.e.) |
| c R ⁴ -R ⁵ : -(CH ₂) ₄ -; R ⁶ : -CO-O-Me | 90% (96% e.e.) |
| d R ⁴ -R ⁵ : -(CH ₂) ₄ -; R ⁶ : -CO-O-Ph | 93% (23% e.e.) |
| e R ⁴ -R ⁵ : -(CH ₂) ₃ -; R ⁶ : -CO-O-Me | 79% (65% e.e.) |
| f R ⁴ -R ⁵ : -(CH ₂) ₅ -; R ⁶ : -CO-O-Me | 76% (22% e.e.) |
| g R ⁴ -R ⁵ : -(CH ₂) ₆ -; R ⁶ : -CO-O-Me | 87% (0% e.e.) |



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