

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

Silver Ion-Assisted Ring Expansions in Different Solvent Systems

Mesut BOZ, Hafize ÇALIŞKAN, Ömer ZAIM

Department of Chemistry, Trakya University, 22030, Edirne-TURKEY

e-mail: omerzaim@trakya.edu.tr

 [Keywords](#)
[Authors](#)

Abstract: Several ring expansion products carrying vinylic bromo functionality were synthesized by opening of the geminal dibromobicyclo[n.1.0]alkanes ring. Dibromocarbene was formed from bromoform and potassium tert-butoxide in hexane. Its reaction with various cyclic alkenes was the resultant dibromobicyclo[n.1.0]alkanes. Then, opening was performed using AgNO_3 in various solvent systems, such as acetic acid/DMSO, acetic acid/DMF, CH_3OH /acetone, and H_2O /DMF.

Key Words: Carbene, bicyclic compound, ring opening, ring expansion, vinylic halide



chem@tubitak.gov.tr

Turk. J. Chem., **33**, (2009), 73-78.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem.,vol.33,iss.1.](#)

[Scientific Journals Home](#)
[Page](#)