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A Mild Method for the Cleavage of Ketals Using IBX

Abdul Rauf RAZA

Ibn-e-Sina Block, Department of Chemistry, University of Sargodha,

Sargodha-40100, PAKISTAN

e-mail: roofichemist@hotmail.com

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

Abstract: Investigation on the total synthesis of batrachotoxin 1 revealed that the cyclic ketals could be cleaved to ketone with IBX in DMSO at 70-81 °C under very mild conditions. A variety of functional groups showed no interference under these conditions except vinyl bromides, which, in fact, inhibits the single electron transfer to IBX.

Key Words: Deprotection, ketal, IBX, ketone, single electron transfer, batrachotoxin.



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