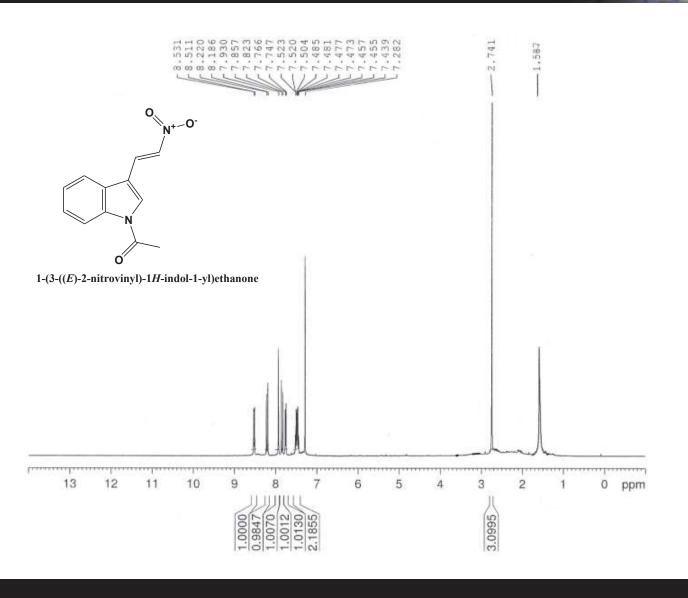
69



1-(3-((E)-2-nitrovinyl)-1H-indol-1-yl)ethanone

Mallappa M, 2017

Department of Chemistry | Government Science College

Field strength: 400 MHz

Why is this your favorite spectrum?

Since the compound has trans-olefinic protons splitted to doublet each other (J = 13.6 Hz), proves due to strain in formation of molecule during reaction at higher temperature undergoes trans confirmation to reduce steric strain in the molecule. This result revealed to myself that trans-isomer formation are therodynamically stable and major during reaction at elevated temperature.