



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

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**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.

