

## Thermolysis of 7-isopropylidene-2,3-diazabicyclo [2.2.1] hept-2-ene in the presence of spin trap

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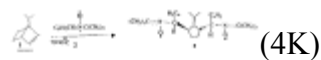
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### Abstract

Thermolysis of 7-isopropylidene-2,3-diazabicyclo-[2.2.1] hept-2-ene (**1**) in the presence of trapping agent,  $\alpha$ -phenyl tert-butyl nitron (**2**) in acetonitrile solution at 70-90°C produced a six-line EPR spectrum with the following hyperfine coupling constants:  $A_N = 14.9$  G and  $A_H = 2.0$  G. The structure was assigned to an isopropylidenecyclopentanyl radical diadduct (**5**) whose hyperfine coupling constants were found to be consistent with those in cyclohexadienyl adducts (**4**) observed by Mao and Kevan. The formation of the biradical (**3**) is ruled out.

### Graphical Abstract



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