

## Characteristic Functional Group Nmr Absorptions

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### Characteristic Functional Group Nmr Absorptions

Because of their characteristic absorptions identification of functional groups is easily accomplished. • Nuclear Magnetic Resonance Spectroscopy: Absorption in the low-energy radio-frequency part of the spectrum causes excitation of nuclear spin states. NMR spectrometers are tuned to certain nuclei (e.g.  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{19}\text{F}$  &  $^{31}\text{P}$ ).

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The specific chemical structure information of K-I-K was determined by <sup>1</sup>H NMR (Fig. 1b) and FTIR (Fig. 1c). The peak at 5.5–6.0 ppm chemical shift indicates the successful synthesis of the secondary amine of the urea group, and other specific peaks of K-I-K have also been marked in Fig. 1b. However, it should be noted that the spectrum of <sup>1</sup>H NMR might be ambiguous since the primary amine ...

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