



# Dodge Caravan Chrysler Voyager Town Country

**Lei Shi**



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web in the first semester lab course you may have determined the temperature dependence of the keto enol equilibrium constants of acetylacetone 2 4 pentanedione and ethyl acetoacetate ethyl 3 oxobutanoate in chloroform  $d_1$   $cdCl_3$  and methanol  $d_4$   $cd_3od$  using 1h nmr 1 4 see figure 1

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web the relative amounts of products and reactants at equilibrium is characterized by the equilibrium constant for this reaction  $K_{eq}$  is defined as  $\frac{[enol]_{eq}}{[keto]_{eq}}$  where the subscript eq indicates that all concentrations are measured at equilibrium

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web because the system exists essentially completely as the thiol isomer a carbon acid acidity constant for ionization starting with the thio keto form as the initial state  $K_j$  could not be measured and a keto enol equilibrium constant  $K_{te}$  could not be determined

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web experimental methods detailed experimental procedure used for this experiment is given in the chem 417 laboratory manual the experiment 1 nmr determination of keto enol equilibrium constant each student prepared 4 tubes with sample solutions and two nmr tubes with solvent only one with deuterated chloroform and one with the methanol

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