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web jan 27 2016 several factors affect the position of keto enol equilibrium defined here as K_{eq} keto including structure steric bulk conjugation electron withdrawing donating groups resonance temperature and solvent a judiciously selected set of compounds that have a common 1,3-dicarbonyl moiety with progressively

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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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web using nmr spectroscopy the equilibrium values for different ketones which undergo tautomerization were found by determining relative peak values for each species the value for acetylacetone was found to be $K_{eq} = 6.22$ and for ethyl acetoacetate was $K_{eq} = 7.5 \times 10^{-2}$

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web nmr determination of keto enol equilibrium constants the nmr spectrum below is for acetylacetone with CDCl₃ as solvent the photos depict the complete nmr spectrum as well more zoomed in areas of each peak demonstrate how to calculate the equilibrium constant for keto to enol conversion K_{eq}

