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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 $K_c = 6.622$ and for ethyl acetoacetate was $K_c = 7.510$

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web NMR determination of keto enol equilibrium constants the NMR spectrum below is for acetylacetone with $CDCl_3$ 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_c