Problem R-17P: C₈H₁₂O₂
300 MHz ¹H NMR spectrum in CDCl₃
Source: Aldrich Spectral Collection/Reich
5. (12 pts.) Determine the structure of C₈H₁₂O₂ from the ¹H NMR spectrum shown. Determine the index of hydrogen deficiency. Write part structures revealed by the chemical shifts, splitting and integrals for all the multiplets. In each part structure circle the hydrogens responsible for the absorption and underline the hydrogens that give rise to the splitting. Hint: The structure contains a ring.
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