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Carbon13 Nuclear Magnetic Resonance Study of *meso*-Hexestrol and Its Derivatives*

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The carbon-13 nuclear magnetic resonance chemical shift assignments for meso-hexestrol, made on the basis of two-dimensional ^{13}C-^{1}H chemical shift correlation, long-range selective ^{1}H decoupling experiment, and a reported two-dimensional Fourier-transform experiment for long-range proton-carbon-13 spin coupling constants, are reported. For measurement of carbon-proton coupling constants of *meso*-hexestrol derivatives, the coupling information was detected by using a gated decoupling facility which permitted retention of the nuclear Overhauser enhancement and a long-range selective ^{1}H decoupling experiment. The results showed that the aromatic carbon resonances are influenced by the structure (no double bond, or one or two double bond(s) of the hexane framework in the central portion.

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