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CONFORMATION OF CHALCONES

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Abstract

NMR-studies on E & Z-chalcones give a diagnostic tool for the assignment of the stereochemistry of chalcones based on absolute chemical shift of oleffinic protons and coupling constant between adjacent oleffinic-protons identified by spin decoupling deuterium labeling, Lanthanide induced Shift (LIS) reagent studies and INDOR studies, even when one isomer is available. These readily distinguish 'E'- isomer from 'z' isomer.
