STRAIGHTFORWARD SYNTHESIS OF 2,2,4,4,5,7,7-d₇-CHOLESTANE: A NEW DEUTERATED STANDARD IN PETROLEUM ANALYSIS

Maicon Guerra de Miranda*, Andre Luis Mazzei Albert, Jari Nobrega Cardoso, Rosangela Sabbatini Capella Lopes and Claudio Cerqueira Lopes

Instituto de Química, Universidade Federal do Rio de Janeiro, Avenida Athos da Silveira Ramos, 149 CT, Bloco A, S.508, 21941-909 Cidade Universitária, Rio de Janeiro – RJ, Brasil



Figura 1S. ¹HNMR spectrum of 4-cholesten-3,6-dione (4), 200 MHz, CDCl₃



de Miranda et al.

Quim. Nova



Figura 3S. EI-MS spectrum of 4-cholesten-3,6-dione (4)



Figura 4S. ¹HNMR spectrum of 3,6-cholestandione (5), 200 MHz, CDCl₃



Figura 5S. ¹³CNMR spectrum of 3,6-cholestandione (5), 50 MHz, CDCl₃



Figura 6S. EI-MS spectrum of 3,6-cholestandione (5)



Figura 7S. ¹HNMR spectrum of 3,6-cholestandione-2,2,4,4,5,7,7-d₇(6), 200 MHz, CDCl₃



Figura 8S. ¹³CNMR spectrum of 3,6-cholestandione-2,2,4,4,5,7,7-d₇(6), 50 MHz, CDCl₃



Figura 9S. EI-MS spectrum of 3,6-cholestandione-2,2,4,4,5,7,7-d₇(6)



Figura 10S. ¹HNMR spectrum of cholestane-2,2,4,4,5,7,7-d₇ (1), 200 MHz, CDCl₃



Figura 11S. ¹³CNMR spectrum of cholestane-2,2,4,4,5,7,7-d₇(1), 50 MHz, CDCl₃



*Figura 12S. EI-MS spectrum of cholestane-2,2,4,4,5,7,7-d*₇(1)