Computing Fujita's Unite Subduced Cycle Index Table for the Non-rigid Group p-Xylene

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Using non-rigid group theory, it was shown that the full non-rigid (f-NRG) group of p−Xylene is isomorphic to the group $C_2 \times (C_3$ wr $C_2)$ of order 36, where C_n is the cyclic group of order n, the symbols × and wr stand for direct and wreath products, respectively (see MATCH Commun. Math. Comput. Chem. 56, 271, 2006). In this paper the Unite Subduced Cycle Index (USCI) table of the unmatured full non-rigid group p-Xylene is successfully computed for the first time.

Keywords: Full non-rigid group, Symmetry, USCI, p-Xylene.