

Eccentric connectivity index of chemical trees

ABSTRACT

The eccentric connectivity index ξ_c is a distance-based molecular structure descriptor that was recently used for mathematical modelling of biological activities of diverse nature. We prove that the broom has maximum ξ_c among trees with a fixed maximum vertex degree, and characterize such trees with minimum ξ_c . In addition, we propose a simple linear algorithm for calculating ξ_c of trees

Keyword: -