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Atom bond connectivity index of molecular graphs of alkynes and cycloalkynes (Article)


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Abstract

The **atom-bond connectivity (ABC) index** is one of the recently most investigated degree based **molecular** structure descriptors that have applications in chemistry. For a graph G , the **ABC index** is defined as $ABC(G) = \sum_{uv \in E(G)} \sqrt{[d_v + d_u - 2]/[d_v \cdot d_u]}$, where d_u denotes the degree of a vertex u in G . In this paper, we establish the general formulas for the **atom bond connectivity index of molecular graphs of alkynes and cycloalkynes**. © Copyright 2016 American Scientific Publishers All rights reserved.

Author keywords

Alkynes and cycloalkynes; Atom bond connectivity index; Molecular graphs

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