
NOMENKLATURA A TERMINOLOGIE

DOPORUČENÍ IUPAC

Nomenclature for Rotaxanes

Expanded definitions of rotaxanes, their components, and other terms concerning rotaxanes are given. The classification of rotaxanes and nomenclature principles for naming different types of rotaxanes are described and illustrated with examples. Recommendations are provided for unambiguous description of rotaxane isomerism with special descriptors that include information about position and orientation of rotaxane components.

This document includes the following main parts:

1. Definitions of terms used in rotaxanes:
 - a. rotaxane itself,
 - b. rotaxane components,
 - i. threading component and linear section,
 - ii. macrocyclic component and threadable ring,
 - c. molecular shuttles and recognition sites.
2. History of the nomenclature of rotaxanes.
3. Classification of rotaxane types.
4. Generic name format for rotaxanes.
5. Types of rotaxane isomerism and description of the location of simple macrocyclic components at different linear sections of a complex threading component and location of simple threading components in macrocyclic components with several threadable rings.
6. Types and specification of rotaxane stereoisomerism orientation of rotaxane components in relation to each other.
7. Examples of rotaxanes and recommended names.

Otiskujeme synopsi názvoslovného návrhu z oboru organické chemie, který byl připraven divizí IUPAC pro chemické názvosloví a reprezentaci struktur. Návrh je nyní určen k posouzení a kritice chemické veřejnosti. Zájemci o bližší informace či o text návrhu se mohou obrátit na adresu Národního střediska IUPAC v České republice:

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