

Provisional Recommendations

IUPAC Seeks Your Comments

Provisional Recommendations are drafts of IUPAC recommendations on terminology, nomenclature, and symbols made widely available to allow interested parties to comments before the recommendations are finally revised and published in *Pure and Applied Chemistry*.

 www.iupac.org/reports/provisional

Explanatory Dictionary of Key Terms in Toxicology

The objective of the explanatory dictionary of concepts in toxicology is to give full explanations of the meaning of toxicological terms chosen for their importance and complexity from the point of merging chemistry and toxicology. This requires a full description of the underlying concepts, going beyond a normal dictionary definition. Often, linguistic barriers lead to problems in obtaining a common understanding of terminology at the international level and between disciplines. The explanatory definitions should help to break down such barriers. The dictionary consists of about 68 terms chosen from the IUPAC "Glossary of Terms Used in Toxicokinetics" [*Pure Appl. Chem.* **76**, 1033-1082, (2004)] organized under 22 main headings. The authors hope that among the groups which will find this explanatory dictionary helpful are chemists, pharmacologists, toxicologists, risk assessors, regulators, medical practitioners, regulatory authorities, and everyone with an interest in the relationship of chemistry to toxicology. It should also facilitate the use of chemistry in relation to risk assessment. Thus, it is expected that there will be a wide audience for this document.

Comments by 31 May 2006

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 www.iupac.org/reports/provisional/abstract06/nordberg_310506.html

Glossary of Terms Relating to Pesticides

The glossary contains definitions of more than 500 terms frequently used in relation to the chemistry, mode of action, regulation, and use of pesticides. A wide range of disciplines are involved in this field and the glossary was developed as a step in facilitating communication between researchers, government regulatory authorities, and chemists in associated professional areas. The range of terms relates to pesticide residue analysis, sampling for analysis, good laboratory practice, metabolism, environmental fate, effects on ecosystems, computer simulation models, toxicology, and risk assessment. The number of important, 'pesticide-related' terms has more than doubled since 1996, when the first IUPAC glossary of this type was developed [*Pure Appl. Chem.* **68**, 1167-1193 (1996)], an indication of how this field has become so integrated with many other scientific and regulatory disciplines.

Comments by 31 May 2006

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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 of 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 the 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 stereo isomerism orientation of rotaxane components in relation to each other
7. examples of rotaxanes and recommended names

Comments by 30 April 2006

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 www.iupac.org/reports/provisional/abstract05/yerin_300406.html

Quantities, Units and Symbols in Physical Chemistry

The purpose of this manual 3rd edition is to improve the exchange of scientific information among the readers in different disciplines and across different nations. As the volume of scientific literature expands, each discipline has a tendency to retreat into its own jargon. This book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. This edition reflects the experience of the contributors with the previous editions, and we are grateful for the many thoughtful comments we have received. Most of the material in this book is "standard," but a few definitions and symbols are not universally accepted. In such cases, we have attempted to list acceptable alternatives.

The book has been systematically brought up to date and new sections have been added.

Comments by 31 March 2006

See Jan–Feb 2006 *CI*, p. 28, for contact.

 www.iupac.org/reports/provisional/abstract05/stohner_310306.html

Glossary of Terms Used in Photochemistry

This third edition, following the second published in 1996 [*Pure Appl. Chem.* **68**, 2223–2286 (1996)], incorporates revisions and enhances the "Glossary" introducing terms related to molecular anisotropy, the use of polarized ultraviolet, visible, or infrared radiation, and nonlinear optical techniques, as well as the emerging field of computation of excited species. Some changes have been introduced in this "Glossary" regarding the terms related to radiation energy to make this collection fully compatible with internationally agreed upon terms.

Comments by 31 March 2006

See Jan–Feb 2006 *CI*, p. 28, for contact.

 www.iupac.org/reports/provisional/abstract05/braslavsky_310306.html