

# 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 comment before the recommendations are finally revised and published in *Pure and Applied Chemistry*.

### Terminology of Polymers Containing Ionizable or Ionic Groups and of Polymers Containing Ions

This document defines the most commonly used terms relating to polymers containing ionizable or ionic groups and to polymers containing ions. Inorganic materials such as phosphates and silicates that also may be considered ionic polymers are excluded from the present document. Only those terms that could be defined without ambiguity are considered. Terms subsidiary to the main terms are printed in bold type in notes to the main terms.

#### Comments by 31 May 2005

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[www.iupac.org/reports/provisional/abstract04/kubisa\\_310505.html](http://www.iupac.org/reports/provisional/abstract04/kubisa_310505.html)

### Nomenclature of Cyclic Peptides

These recommendations extend rule 3AA-19.5 of the Nomenclature and Symbolism for Amino Acids and Peptides (Recommendations 1983) to cover all classes of cyclic peptides. They include rings generated from an acyclic peptide by formation of a peptide or ester bond, by a disulfide link, or by a new carbon-carbon, carbon-nitrogen, nitrogen-oxygen, or carbon-sulfur bond (not esters or amides). The inclusion of modified standard amino acids or amino acids not related to standard amino acids is considered. Any stereochemistry generated by ring formation is indicated using standard organic conventions.

#### Comments by 31 March 2005

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### Nomenclature of Organic Chemistry

A major new principle is elaborated in these recommendations. The concept of "preferred IUPAC names" is developed and systematically applied. However, rather than recommend only a single "unique name" for each structure, we have developed rules for assigning "preferred IUPAC names," while continuing to allow alternatives in order to preserve the diversity and adaptability of the nomenclature to daily activities in chemistry and in science in general.

This book covers and extends the principles, rules and conventions described in two former publications: *Nomenclature of Organic Chemistry*, 1979 Edition, and *A Guide to IUPAC Nomenclature of Organic Compounds*, Recommendations 1993.

#### Comments by 31 March 2005

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