

## Provisional Recommendations

*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.*

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### Explanatory Glossary of Terms Used in Expression of Relative Isotope Ratios and Gas Ratios

To minimize confusion in the expression of measurements of isotope and gas ratios, a glossary based on recommendation by the Commission on Isotopic Abundances and Atomic Weights of the IUPAC is presented. Entries in the glossary are consistent with the SI system of units or with recommendations of the Commission. The recommendations presented herein are designed to clarify expression of quantities related to measurement of isotope and gas ratios by ensuring that quantity equations and not numerical-value equations are used to define quantities. Examples of

column headings consistent with SI recommendations and examples of various deprecated usages connected with the terms recommended are presented herein.

#### Comments by 31 May 2008

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 [www.iupac.org/reports/provisional/abstract08/coplen\\_310508.html](http://www.iupac.org/reports/provisional/abstract08/coplen_310508.html)

### Glossary of Class Names of Polymers Based on Chemical Structure and Molecular Architecture

This document defines class names of polymers based on the class names of starting monomers and characteristic features of the chemical constitution of polymer molecules (macromolecules), i.e., class names that have gained general acceptance in the polymer and material literature, science and technology as well as in public.

The glossary is divided into three parts:

- Source-based class names, which identify common classes of starting monomers such as “acrylic”, “diene”, “phenolic”, “vinyllic”.
- Class names based on chemical structure, which identify characteristic groups in the main chains (backbones) of the polymer molecules such as (i) inter-unit groups derived from functional groups, e.g., “amide”, “ester”, “ether”; (ii) a specific group of atoms, e.g., “alkenylene”, “siloxane”, “sulfone”; (iii) ring structures, e.g., “benzimidazole”, “benzoxazole”, “quinoxaline”.

- Class names based on molecular architecture, which identify mainly the overall shapes of polymer molecules through the type of their graphical representation such as “linear”, “branched”, “dendritic”, “comb”.

Each part of the glossary is arranged in a non-hierarchical alphabetical order. Each entry provides: a) the polymer class name; b) its definition; c) specific or generic examples including IUPAC names and a structure or graphical representation; d) relations to other polymer classes and subclasses; e) notes on the inclusion or exclusion of borderline cases. Alphabetical index of all class names is included.

#### Comments by 30 June 2008

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