

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. Full text is available online.

Definition of the Hydrogen Bond

This recommendation provides a short definition for the hydrogen bond, followed by a list of experimental and/or theoretical criteria, which can be used as evidence for the presence of the hydrogen bond. Finally, some characteristics that are typical of hydrogen bonded systems are given. A brief explanation of the terms used is provided after the definition. The task group has also produced a comprehensive technical report, which provides a summary of the past work on hydrogen bonding and also the rationale for the proposed definition.

Comments by 31 March 2011

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 http://media.iupac.org/reports/provisional/abstract11/arunan_310311.html

Definitions of Terms Relating to Crystalline Polymers

The recommendations embodied in this document concern the terminology relating to the structure of crystalline polymers and the processes of polymer crystallization. Reference to actual polymer crystals of microscopic dimensions is essential to define the characteristic properties of crystalline polymers. Such crystals correspond only very approximately to the infinite, three-dimensionally periodic arrangements of atoms defining the ideal crystalline state.

Comments by 31 May 2011

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Terminology for Biorelated Polymers and Applications

The science and application of biorelated polymers require cooperation among different disciplines and scientific domains. Scientists whose research involves using polymer-based compounds and devices in contact with living systems tend to use the terms and definitions recommended by IUPAC. However, scientists in other fields have often developed incoherent terminologies.

The aim of the following recommendation is to provide a standard terminology that can be used across all fields of science involved with biorelated polymers, namely medicine, surgery, pharmacology, agriculture, packaging, biotechnology, and polymer waste management. This is necessary because i) human health and environmental sustainability are more and more interdependent; ii) research, applications, norms and regulations are still developed independently in each sector; and iii) nonspecialists such as journalists and politicians need a common language.

Comments by 31 May 2011

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