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IUPAC RECOMMENDATIONS ON NOMENCLATURE AND SYMBOLS

Macromolecular Division
Commission on Macromolecular Nomenclature

Nomenclature of Regular Single-Strand Organic Macromolecules

SYNOPSIS

A structure-based nomenclature for regular single-strand organic polymers is described. In concept, a generic name for the polymer $(ABC)_n$ is poly(ABC), in which (ABC) is a constitutional repeating unit (CRU) representing the chemical structure of the polymer chain, and A, B, and C are the subunits that comprise the CRU. To provide a unique and unambiguous name, rules are given to identify the preferred CRU and to name it using the names of A, B, and C based on current organic nomenclature. Provisions are made for naming end groups of the polymers and polymer substituents. In addition, the document contains a glossary of concepts and definitions, list of common subunit names, and a variety of examples of structure-based polymer names. The document is a revision of the 1975 Rules.

Comments on this document are welcomed and should be sent by 30 April 2000 to: Dr Jaroslav Kahovec, Ústav makromolekulárni chemie, Akademie ved Ceské republiky, Heyrovského námesti 2, CZ-162 06, Praha 6, Czech Republic E-mail:kah@imc.cas.cz

To obtain a copy of the provisional recommendations please write to Professor Osman Achmatowicz, The Polish Chemical Society, ul. Freta 16, 00-227 Warszawa, Poland.

IUPAC RECOMMENDATIONS ON NOMENCLATURE AND SYMBOLS

Analytical Chemistry Division
Commission on Analytical Nomenclature

Nomenclature for X-Ray Emission Spectrochemical Analysis

SYNOPSIS

This draft document contains the nomenclature and practices of X-ray spectrochemical analysis which is practically carried out by X-ray emission spectroscopy (XES) especially by the X-ray fluorescence method. Quantitative analysis by XES has excellent repeatability. Reproducibility and accuracy of XES, however, depend strongly on specimen preparation and data analysis. Some 60 terms together with definitions are contained herein. These terms are followed by condensed descriptions of the conditions that should be observed in order to realize feasible analytical performance.

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General comments refer to similarity and difference of terms used in X-ray analysis and in other optical methods. Terms related to material examined describe specimen preparation related matters. Terms related to X-ray generation deal with the mechanism of X-ray generation an X-ray sources. These also refer to X-ray attenuation which is important in quantitative analysis. Terms related to X-ray measurement cover spectrometer and detector systems. Terms related to X-ray data interpretation concern statistical description of X-ray intensity measurement and various quantification methods. The analytical function method and the fundamental parameter method, both widely used, are described in a concise manner referring to an ASTM standard. This document is a revision of a part of Spectrochemical analysis in the Orange Book (NOMENCLATURE SYSTEM FOR X-RAY SPECTROSCOPY, IUPAC Recommendations 1991).

Comments on this document are welcomed and should be sent by 30 April 2000 to: Prof. Yohichi Gohshi, Deputy Director General, National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba 305-0053, Japan E-mail:gohshi@nies.go.jp

To obtain a copy of the provisional recommendations please write to Professor Osman Achmatowicz, The Polish Chemical Society, ul. Freta 16, 00-227 Warszawa, Poland.

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