

Item 10.7: Interdivisional Committee on Terminology, Nomenclature and Symbols

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

INTERDIVISIONAL COMMITTEE ON TERMINOLOGY, NOMENCLATURE AND SYMBOLS (ICTNS)

REPORT TO IUPAC COUNCIL, 2005

Activities of ICTNS during the biennium 2004-2005 included the following:

- 1.0 Technical Reports and Recommendations; total accepted or under review: 48.
 - 1.1 Technical Reports reviewed and published in Pure and Applied Chemistry: 19 (list attached)
 - 1.2 Recommendations reviewed and published in Pure and Applied Chemistry: 7 (list attached)
 - 1.3 Recommendations reviewed and published elsewhere: 1 (*Nomenclature of Inorganic Chemistry*, in press RSC).
 - 1.4 Recommendations accepted for publication elsewhere: 2 - Revisions of the VIM (*International Vocabulary of Metrology*) and Supplement 1 of the GUM (*Guide to Uncertainty in Measurement*) for BIPM-ISO.
 - 1.5 Technical Reports accepted as of 2005-06-20: 3
 - 1.6 Recommendations accepted as of 2005-06-20: 0
 - 1.7 Technical Reports under review as of 2005-06-20: 11
 - 1.8 Recommendations under review as of 2005-06-20: 5
- 2.0 New duties for Chairman and Secretary of ICTNS
The holders of these positions are now also Editors, Technical Reports and Recommendations, for *Pure and Applied Chemistry*. The Chairman is a member of the Editorial Advisory Board for PAC.
- 3.0 Revision of *IUPAC Handbook*
The *Handbook 2004-2005*, sections *Procedures for Publication of IUPAC Technical Reports and Recommendations*; *Guidelines for Drafting IUPAC Technical Reports and Recommendations* are completely revised versions based on extensive discussions within ICTNS.
- 4.0 Interactions with the International Scientific Community
ICTNS has: (a) answered a number of queries concerning terminology, nomenclature and symbols submitted to IUPAC either by individual scientists or organizations; (b) served as one of IUPAC's active contacts with BIPM and ISO; (c) served as advisors on preparation of reports on a number of extensive IUPAC projects.

J. W. Lorimer
Chairman, ICTNS
2005-06-20

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Appendix: Technical Reports and Recommendations published in *Pure and Applied Chemistry* 2003 through June 2005

Technical Reports

Critical evaluation of stability constants for alpha-hydroxycarboxylic acid complexes with protons and metal ions and the accompanying enthalpy changes. Part II. Aliphatic 2-hydroxycarboxylic acids,

Pure Appl. Chem. 74(4), 495-540, 2003

R. Portanova, L. H. J. Lajunen, M. Tolazzi, and J. Piispanen

Endocrine disruptors in the environment,

Pure Appl. Chem. 75(5), 631-681, 2003

J. Lintelmann, A. Katayama, N. Kurihara, L. Shore, and A. Wenzel

Critical review of analytical applications of Mössbauer spectroscopy illustrated by mineralogical and geological examples,

Pure Appl. Chem. 75(6), 801-858, 2003

E. Kuzmann, S. Nagy, and A. Vértes

Atomic weights of the elements. Review 2000,

Pure Appl. Chem. 75(6), 683-799, 2003

J. R. de Laeter, J. K. Böhlke, P. De Bièvre, H. Hidaka, H. S. Peiser, K. J. R. Rosman, and P. D. P. Taylor

Significance of impurities in the safety evaluation of crop protection products,

Pure Appl. Chem. 75(7), 937-973, 2003

A. Ambrus, D. J. Hamilton, H. A. Kuiper, and K. D. Racke

Critical assessment: Use of supersonic jet spectrometry for complex mixture analysis,

Pure Appl. Chem. 75(7), 975-998, 2003

T. Imasaka, D. S. Moore, and T. Vo-Dinh

Regulatory limits for pesticide residues in water,

Pure Appl. Chem. 75(8), 1123-1155, 2003

D. J. Hamilton, ? Ambrus, R. M. Dieterle, A. S. Felsot, C. A. Harris, P. T. Holland, A. Katayama, N. Kurihara, J. Linders, J. Unsworth, and S.-S. Wong

Critically evaluated propagation rate coefficients in free-radical polymerizations: Part III.

Methacrylates with cyclic ester groups,

Pure Appl. Chem. 75(8), 1091-1096, 2003

S. Beuermann

Atomic weights of the elements 2001,

Pure Appl. Chem. 75(8), 1107-1122, 2003

R. D. Loss

Minimum requirements for reporting analytical data for environmental samples,

Pure Appl. Chem. 75(8), 1097-1106, 2003

H. Egli, M. Dassenakis, H. Garellick, R. van Grieken, W. J. G. M. Peijnenburg, L. Klasinc, W. Kördel, N. Priest, T. Tavares

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Properties and units in the clinical laboratory sciences. XIX. Properties and units for transfusion medicine and immunohematology,

Pure Appl. Chem. 75(10), 1477-1600, 2003

K. Varming, U. Forsum, I. Bruunshuus, and H. Olesen

On the claims for discovery of elements 110, 111, 112, 114, 116, and 118,

Pure Appl. Chem. 75(10), 1601-1611, 2003

P. J. Karol, H. Nakahara, B. W. Petley, and E. Vogt

Rheological and mechanical properties of poly(a-methylstyrene-co-acrylonitrile)/ poly (methylacrylate-co-methyl methacrylate) blends in miscible and phase separated regimes of various morphologies. Part IV: Influence of the morphology on the mechanical...,

Pure Appl. Chem. 76(2), 389-413, 2004

V. Altstädt, L. de Lucca Freitas, and D. W. Schubert

Determination of trace elements bound to soil and sediment fractions,

Pure Appl. Chem. 76(2), 415-442, 2004

J. Hlavay, T. Prohaska, M. Weisz, W. W. Wenzel, and G. J. Stingereder

Critical evaluation of the state of the art of the analysis of light elements in thin films demonstrated using the examples of SiOXNY and AlOXNY films,

Pure Appl. Chem. 76(6), 1161-1213, 2004

S. Dreer and P. Wilhartitz

Electrochemical detection in liquid flow analytical techniques: Characterization and classification,

Pure Appl. Chem. 76(6), 1119-1138, 2004

K. Tóth, K. Stulík, W. Kutner, Z. Fehér, and E. Lindner

Guidelines for calibration in analytical chemistry. Part 2: Multicomponent calibration,

Pure Appl. Chem. 76(6), 1215-1225, 2004

K. Danzer, M. Otto, and L. A. Currie

Piezoelectric chemical sensors,

Pure Appl. Chem. 76(6), 1139-1160, 2004

R. P. Buck, E. Lindner, W. Kutner, and G. Inzelt

Aerosols: Connection between regional climate change and air quality,

Pure Appl. Chem. 76(6), 1241-1253, 2004

S. Slanina and Y. Zhang

Aerosol pollution in some Chinese cities,

Pure Appl. Chem. 76(6), 1227-1239, 2004

Y. Zhang, X. Zhu, S. Slanina, M. Shao, L. Zeng, M. Hu, M. Bergin, and L. Salmon

Mechanisms of immunosensitization to metals,

Pure Appl. Chem. 76(6), 1255-1268, 2004

D. M. Templeton

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Diagnostic relevance of the lymphocyte transformation test for sensitization to beryllium and other metals,

Pure Appl. Chem. 76(6), 1269-1281, 2004

R. Klein, M. Schwenk , R. Heinrich-Ramm, and D. M.Templeton

Properties and units in the clinical laboratory sciences. Part XVIII. Properties and units in clinical molecular biology,

Pure Appl. Chem. 76(9), 1799-1807, 2004

P. Soares de Araujo, B. Zingales, P. Alía-Ramos, A. Blanco-Font, X. Fuentes-Arderiu, C. Mannhalter, K. Varming, S. Bojesen, I. Bruunshuus, and H. Olesen

Compilation of k₀ and related data for NAA in the form of electronic database,

Pure Appl. Chem. 76(10), 1921-1925, 2004

V. P. Kolotov and F. De Corte

Rheological properties and associated structural characteristics of some aromatic polycondensates including liquid-crystalline polyesters and cellulose derivatives,

Pure Appl. Chem. 76(11), 2027-2049, 2004

J. L. White, L. Dong, P. Han, and M. Laun

Characterization of polyamides 6, 11, and 12. Determination of molecular weight by size exclusion chromatography,

Pure Appl. Chem. 76(11), 2009-2025, 2004

E. C. Robert, R. Bruessau, J. Dubois, B. Jacques, N. Meijerink, T. Q. Nguyen, D. E. Niehaus, and W. A. Tobisch

Chemical actinometry,

Pure Appl. Chem. 76(12), 2105-2146, 2004

H. J. Kuhn, S. E. Braslavsky, and R. Schmidt

Electrochemistry at the interface between two immiscible electrolyte solutions,

Pure Appl. Chem. 76(12), 2147-2180, 2004

Z. Samec

'Practical guide to measurement and interpretation of magnetic properties,

Pure Appl. Chem. 77(2), 497-511, 2005

S. Hatscher, H. Schilder, H. Lueken, and W. Urland

High temperature mass spectrometry: Instrumental techniques, ionization cross sections, pressure measurements and thermodynamic data,

Pure Appl. Chem. 77(4), 683-737, 2005

J. Drowart, C. Chatillon, J. Hastie, and D. Bonnell

Chemical speciation of environmentally significant heavy metals with inorganic ligands:

Part 1: The Hg 2+ - Cl-, OH-, CO₃ 2-, SO₄ 2- And PO₄ 3- Systems,

Pure Appl. Chem. 77(4), 739-800, 2005

H. K. J. Powell, P. L. Brown, R. H. Byrne, T. Gajda, G. Hefter, S. Sjöberg, and H. Wanner

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Chemical structure and physical properties of cyclic olefin copolymers,
Pure Appl. Chem. 77(5), 801-814, 2005

J. Y. Shin, J. Y. Park, C. Liu, J. He, and S. C. Kim

Polyaniline: Thin films and colloidal dispersions,
Pure Appl. Chem. 77(5), 815-826, 2005

J. Stejskal and I. Sapurina

Recommendations

Name and symbol of element of atomic number 110,

Pure Appl. Chem. 75(10), 1613-1615, 2003

J. Corish and G. M. Rosenblatt

Terminology for analytical capillary electromigration techniques,

Pure Appl. Chem. 76(2), 443-451, 2004

M.-L. Riekkola, J. A. Jönsson, and R. M. Smith

Definitions of terms relating to reactions of polymers and to functional polymeric materials,

Pure Appl. Chem. 76(4), 889-906, 2004

K. Horie, M. Bárón, R. B. Fox, J. He, M. Hess, J. Kahovec, T. Kitayama, P. Kubisa, E. Maréchal, W. Mormann, R. F. T. Stepto, D. Tabak, J. Vohlídal, E. S. Wilks, and W. J. Work

Glossary of terms used in toxicokinetics,

Pure Appl. Chem. 76(5), 1033-1082, 2004

M. Nordberg, J. Duffus, and D. M. Templeton

Quantities, terminology, and symbols in photothermal and related spectroscopies,

Pure Appl. Chem. 76(6), 1083-1118, 2004

M. Terazima, N. Hirota, S. E. Braslavsky, A. Mandelis, S. E. Bialkowski, G. J. Diebold, R. J. D. Miller, D. Fournier, R. A. Palmer, and A. Tam

Definition of terms related to polymer blends, composites, and multiphase polymeric materials,

Pure Appl. Chem. 76(11), 1985-2007, 2004

W. J. Work, K. Horie, M. Hess, and R. F. T. Stepto

Name and Symbol of the Element with Atomic Number 111,

Pure Appl. Chem. 76(12), 2101-2103, 2004

J. Corish and G. M. Rosenblatt

Terminology in soil sampling,

Pure Appl. Chem. 77(5), 827-841, 2005

P. de Zorzi, S. Barbizzi, M. Belli, G. Ciceri, A. Fajgelj, D. Moore, U. Sansone, and M. Van der Perk

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Numbering of fullerenes,
Pure Appl. Chem. 77(5), 843-923, 2005
F. Cozzi, W. H. Powell, and C. Thilgen