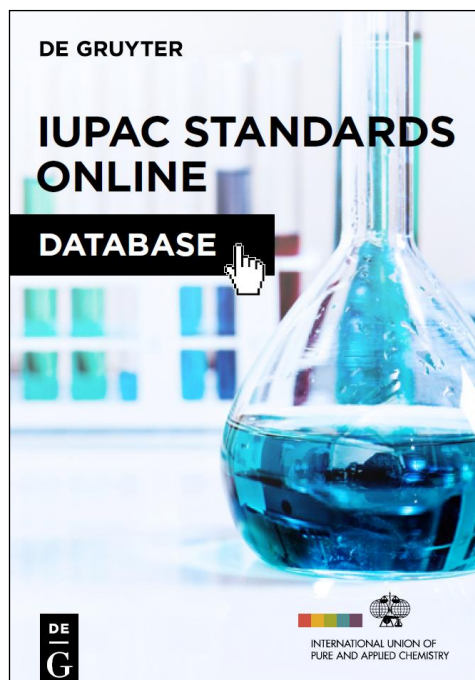


DATABASE IUPAC STANDARDS ONLINE



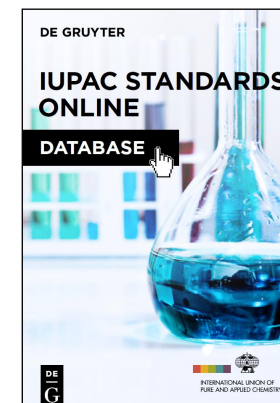
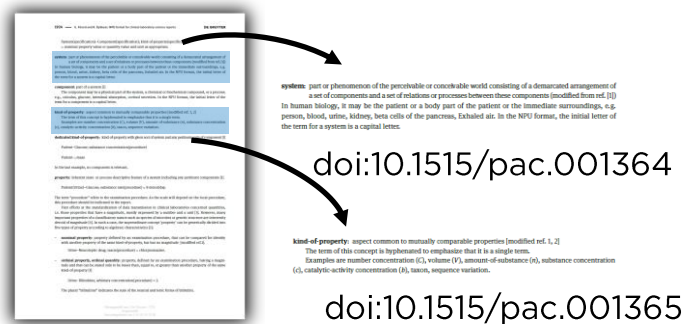
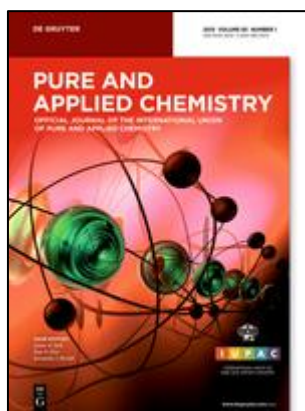
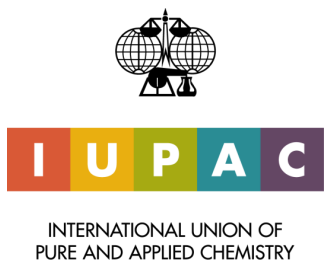
INTERNATIONAL UNION OF
PURE AND APPLIED CHEMISTRY

WHAT IS THE DATABASE ABOUT?



- ▶ IUPAC = International Union of Pure and Applied Chemistry (organization for chemists from industry and academia)
- ▶ IUPAC regularly publishes articles including standards and recommendations in the journal *Pure and Applied Chemistry*
- ▶ The database compiles all standards and recommendations ever published and makes them easily accessible
- ▶ Standards = definition of terms, standard procedures, standard values ...
- ▶ Standards are internationally binding for scientists in industry and academia, toxicologists, environmental scientists, patent lawyers...

WHAT IS THE ADDED VALUE?



International organization of chemists from industry and academia



IUPAC regularly publishes articles including internationally binding standards and recommendations in the journal *Pure and Applied Chemistry*.



All relevant information on standards and recommendations is extracted from the articles and enriched with metadata



The database accumulates all standards and recommendations and makes them easily accessible

WHAT DOES IT INCLUDE?

- ▶ The database contains:
 - ▶ Over 1000 standards and recommendations extracted from 22,000 pages *Pure and Applied Chemistry*
 - ▶ All standards and recommendations published since 1960
- ▶ Yearly updates
 - ▶ Include all standards and recommendations published up to the previous year (extracted from *Pure and Applied Chemistry*)
 - ▶ Yearly amount depending on the No. of standards & recommendations published

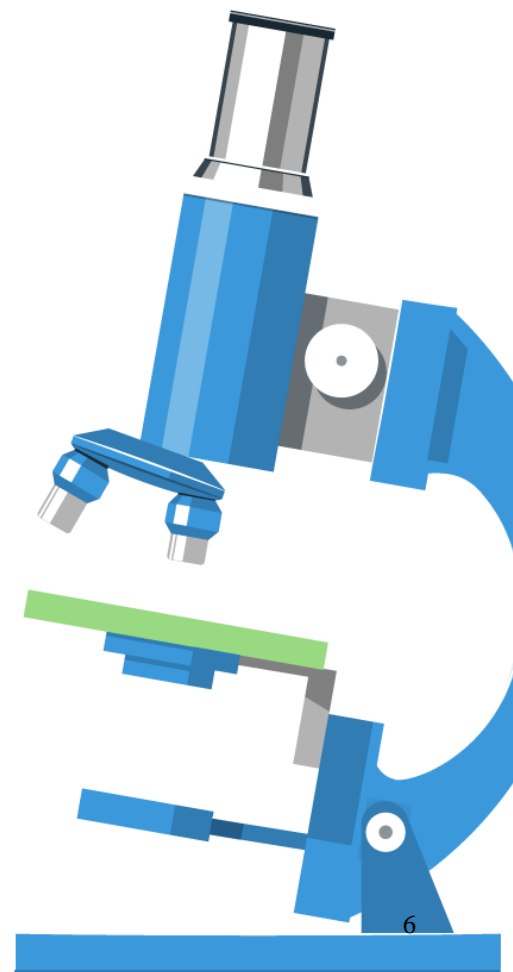


WHAT ARE THE BENEFITS?

- ▶ All standards and recommendations in one place
- ▶ Quick and easy search and retrieval of standards and recommendations
- ▶ Short database entries = finding specific standards and recommendations in a quick, spoon-fed way
- ▶ Thesaurus: search directs user to the IUPAC conform term defined in the database
- ▶ Covering topics in:
Analytical Chemistry, Biochemistry, Chemical Safety, Data Management, Education, Environmental Chemistry, Inorganic Chemistry, Materials, Medicinal Chemistry, Nuclear Chemistry, Organic & Physical Chemistry

COMPREHENSIVE SEARCH CRITERIA AND FILTER OPTIONS

- ▶ Extensive metadata for each entry allow a sophisticated and quick retrieval of the relevant information:
 - ▶ **12 search criteria:** full text, keyword, title, IUPAC Division, collaborative partner, author, year, article type, tables/ figures, provisional, IUPAC project number, DOI
 - ▶ **6 text filters:** topics, IUPAC division, author, year, article type, provisional
 - ▶ **19 subject categories**
 - ▶ **172 subcategories**



The screenshot shows the IUPAC Standards Online product page. At the top, a navigation bar contains links: [Add Note](#), [Print](#), [Save to bookshelf](#), [Cite/Export](#), [Your opinion](#), [Email](#), [Share](#), and [Text size: \[icon\]](#). The main content area features a product cover for 'IUPAC STANDARDS ONLINE DATABASE' on the left, a central title 'IUPAC Standards Online' with a description and a 'Get New Entry Alerts' button, and a right-hand sidebar with pricing and purchase options. Below the cover is a 'SEARCH DATABASE' button. At the bottom, there are tabs for 'Überblick', 'Details', and 'Kommentare (0)'. Annotations with lines pointing to specific elements are provided:

- Add note to personal account**: Points to the 'Add Note' link in the top navigation bar.
- Saving options for database entries**: Points to the 'Save to bookshelf' link in the top navigation bar.
- Send feedback to De Gruyter**: Points to the 'Your opinion' link in the top navigation bar.
- Change text size for entry or result list**: Points to the 'Text size: [icon]' link in the top navigation bar.
- Opens the search function**: Points to the 'SEARCH DATABASE' button below the product cover.
- Allows citation in MLA, APA, and Chicago styles, or export elements in RIS format**: Points to the 'Cite/Export' link in the top navigation bar.

1 SEARCH

SIMPLE SEARCH

The screenshot shows the 'IUPAC Standards Online' website. At the top left is a logo for 'IUPAC STANDARDS ONLINE'. Below it is a 'DETAILS >' button. The main search area has a 'Search' section with a text input field containing 'SEARCH' and a magnifying glass icon. Below the input field is a link for 'Advanced Search >'. To the right of the search input is a brief description of the database. Below the search section are filter options for 'Volume', 'Issue', and 'Page', with 'Submit' and 'Clear' buttons. At the bottom, there is a 'Filter' section and a 'Topics' section with a link to 'Analytical Chemistry (32)'.

Search in full text

ADVANCED SEARCH (MORE SEARCH OPTIONS)

The screenshot shows the 'IUPAC Standards Online' website with the advanced search options expanded. The search input field is empty. Below it, a dropdown menu is open, showing options: 'Full Text', 'Keyword', 'Title', 'IUPAC Division', 'Collaborative Partner', 'Author', 'Year', 'Article Type', 'Provisional', 'Tables/Figures', and 'IUPAC Priority Number'. The 'Title' option is highlighted. To the right of the search section is a brief description of the database. Below the search section are filter options for 'Volume', 'Issue', and 'Page', with 'Submit' and 'Clear' buttons. At the bottom, there is a 'Filter' section and a 'Topics' section with a link to 'Analytical Chemistry (32)'.

Combine multiple search terms

Choose from 12 search criteria

2 ADDITIONAL SEARCH FUNCTIONALITIES

The screenshot displays the search interface of IUPAC Standards Online. At the top, there are input fields for 'Volume', 'Issue', and 'Page', each with a yellow highlight, and 'Submit' and 'Clear' buttons. Below this is a 'Filter' section with a 'Topics' sub-section. The 'Topics' list includes: Analytical Chemistry (14), Data Management (3), Environmental Chemistry (1), Measurement (3), Nomenclature and Terminology (27) (checked), Chemical Representation (10) (checked), Graphical Representations (10), Environmental Chemistry (1), Organic Chemistry (10), Physical Chemistry (1), Organic Chemistry (10), Physical Chemistry (3), Publication/Documentation Bibliography (1), and Toxicology (1). The main content area shows search results for '1976 Article' under various sections: '3. Terms, Symbols, and Units for the Description of the Analytical Apparatus', '4. Terms and Symbols Relating to the Analytical Procedure and the Performance of an Analysis', '5. Terms, Symbols, and Units Relating to Radiant Energy and Its Interaction With Matter', and '6. Terms, Symbols, and Units Relating to the Gaseous State of Matter'. Each result has a 'SAVE' button. At the bottom, 'Appendix 1' is visible.

Search by referencing to the volume, issues, page of the original publication in *Pure and Applied Chemistry*

Search by filtering: 19 subject categories, 172 subcategories + 6 text filters

3 RESULT LIST

The screenshot shows the IUPAC Standards Online search results page. The page title is "IUPAC Standards Online". The search criteria are "Full Text: Mössbauer". The results are sorted by "Title (A-Z)" and 15 items per page are displayed. The first result is "Nomenclature and Conventions in Electron Spectroscopy Resulting from Excitation by Photons" (1976 Article). The second result is "Mössbauer Spectroscopic Data" (1976 Article). Annotations point to various features: "Number of entries" points to the search results count; "Select the number of results per page" points to the "Items per page" dropdown; "Results can be sorted" points to the "Sort by" dropdown menu; "Clicking on the title opens document display" points to the title of the first result; and "Additional information: Author, publication year, article type" points to the metadata of the first result.

Number of entries

Select the number of results per page

Results can be sorted

Clicking on the title opens document display

Additional information:
Author, publication year, article type

4 DOCUMENT DISPLAY: ARTICLE HEADER

Navigate between results

Change to "reading view"

Topical classification

DOI of the entry

Link to the original article in the database

Original citation information from the journal *Pure and Applied Chemistry*

Keywords link to other relevant entries

Search

Search publication

Advanced Search >

MORE SEARCH OPTIONS >

Supplementary Materials

Test1

Test2

« Previous Back to Results Next »

Reading View >

Organic Chemistry > Stereochemistry

Nomenclature and Terminology > Organic Chemistry

Nomenclature and Terminology > Chemical Representation > Graphical Representations

DOI: 10.1515/pac-45-0004

E-1 Types of Isomerism

From: [Rules for the Nomenclature of Organic Chemistry. Section E - Stereochemistry](#)

L. C. Cross / W. Klyne

Cite as: L. C. Cross, W. Klyne: Rules for the Nomenclature of Organic Chemistry. Section E - Stereochemistry, *Pure Appl. Chem.* 45, 11 (1976) DOI: 10.1351/pac197645010011

Keywords: stereochemistry; configuration; conformation; isomers; chirality; fused rings

IUPAC Division: Organic Chemistry Division, Commission on Nomenclature of Organic Chemistry

Provisional: No

Document Type: Recommendation

⊙ E-1.1.

⊙ E-1.2.

Isomers are termed stereoisomers when they differ only in the arrangement of their atoms in space.

Hence	stereoisomeric (adjective)
	stereoisomerism (phenomenological)

5 DOCUMENT DISPLAY: ADDITIONAL FUNCTIONALITIES

⊗ A. PROPOSED CONVENTIONS FOR THE REPORTING OF MOSSBAUER DATA

⊗ B. MANUAL OF TERMINOLOGY, SYMBOLS, AND UNITS FOR MOSSBAUER SPECTROSCOPY

⊗ Membership of sponsoring bodies

⊗ NOTES

[\[back to top\]](#)

⊗ Related Content

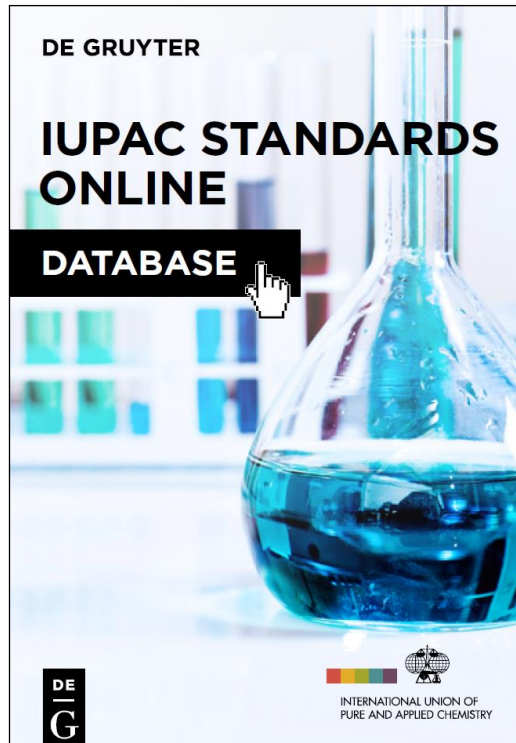
- 1 [Nomenclature, Symbols, Units and Their Usage in Spectrochemical Analysis - IV X-Ray Emission Spectroscopy by R. Jenkins \(1980\)](#)
- 2 [A Study of Impact Strength Testing and Its Relevance to Real Moldings by R. Turner \(1980\)](#)
- 3 [5. Section \(D\) some Properties of the Oriented Sheets by T. T. Jones \(1976\)](#)
- 4 [2. Flow Measurement by H. O. Bouning \(1965\)](#)
- 5 [E-4. Chirality by L. C. Cross, W. Klyne \(1976\)](#)
- 6 [Recommendations for Publication of Papers on a New Analytical Method Based on Ion Exchange or Ion-Exchange Chromatography by J. Inczédy \(1980\)](#)
- 7 [E-1 Types of Isomerism by L. C. Cross, W. Klyne \(1976\)](#)
- 8 [4. Section \(C\) the Degree of Orientation by T. T. Jones \(1976\)](#)
- 9 [4. Degradation and Metabolism by P.C. Kearney \(1980\)](#)
- 10 [2. Section \(A\) Characterization of the Raw Materials by T. T. Jones \(1976\)](#)
- 11 [3. Sampling by H. O. Bouning \(1963\)](#)
- 12 [A Collaborative Study on the Melt Rheology of a Styrene-Butadiene-Styrene Block Copolymer by A. Ghisla, J. Baudou \(1980\)](#)
- 13 [Definition of Persistence in Pesticide Chemistry by Roy Greenhaigh, R. L. Baron, J. Desmoras, R. Engst, H. O. Esser, W. Klein \(1980\)](#)
- 14 [Recommended Reference Materials for the Realization of Physicochemical Properties - Density by F. F. G. Herington, J. Brown, J. E. Lane \(1976\)](#)
- 15 [Atomic Weights of the Elements 1973 by H. E. Hilden \(1980\)](#)
- 16 [Analytical Biochemistry of Nickel by F. William Sunderman Jr. \(1980\)](#)

⊗ Comments (0)

Link to other relevant entries

Possibility to leave a comment

SUMMING UP...



- ▶ **Useful:** IUPAC's standards and recommendations easily discoverable
- ▶ **Extensive:** standard values and procedures, nomenclature, terminology and symbols, materials properties of elements,...
- ▶ **Smart:** topical structure, advanced search, cross linked articles

PRICING



Purchase Option:

€ 4000.00 / US\$ 5400.00 / GBP 3000.00



Update Price:

€ 400.00 / US\$ 480.00 / GBP 300.00



Rental Price:

€ 1000.00 / US\$ 1350.00 / GBP 750.00