



CRC Handbook of Chemistry and Physics, 95th Edition (100 Key Points)

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Proudly serving the scientific community for over a century, this 95th edition of the **CRC Handbook of Chemistry and Physics** is an update of a classic reference, mirroring the growth and direction of science. This venerable work continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting of tables of data and current international recommendations on nomenclature, symbols, and units, its usefulness spans not only the physical sciences but also related areas of biology, geology, and environmental science.

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Available in traditional print format, as an eBook, and online, this reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach.

New tables:

Section 8: Analytical Chemistry

- Figures of Merit
- Common Symbols Used in Gas and Liquid Chromatographic Schematic Diagrams
- Varieties of Hyphenated Gas Chromatography with Mass Spectrometry
- Section 15: Practical Laboratory Data

- Standard Fittings for Compressed Gas Cylinders
- Plug and Outlet Configurations for Common Laboratory Devices

Section 16: Health and Safety Information

- Abbreviations Used in the Assessment and Presentation of Laboratory Hazards
- Incompatible Chemicals
- Explosion (Shock) Hazards
- Water-Reactive Chemicals
- Testing Requirements for Peroxidizable Compounds
- Tests for the Presence of Peroxides
- Pyrophoric Compounds - Compounds That Are Reactive with Air
- Flammability Hazards of Common Solvents
- Selection of Laboratory Gloves
- Selection of Respirator Cartridges and Filters
- Selection of Protective Laboratory Garments
- Protective Clothing Levels
- Chemical Fume Hoods and Biological Safety Cabinets
- Gas Cylinder Safety and Stamped Markings
- Laser Hazards in the Laboratory
- General Characteristics of Ionizing Radiation for the Purpose of Practical Application of Radiation Protection
- Radiation Safety Units

Significantly updated and expanded tables:

Section 1: Basic Constants, Units, and Conversion Factors

- Update of Standard Atomic Weights (2013)
- Update of Atomic Masses and Abundances

Section 8: Analytical Chemistry

- Expansion of Abbreviations and Symbols Used in Analytical Chemistry

Section 9: Molecular Structure and Spectroscopy

- Update of Bond Dissociation Energies

Section 12: Properties of Solids

- Major update and Expansion of Electron Stopping Powers

Section 14: Geophysics, Astronomy, and Acoustics

- Major Update of Interstellar Molecules
- Update of Atmospheric Concentration of Carbon Dioxide, 1958-2013
- Update of Global Temperature Trend, 1880-2013

Section 15: Practical Laboratory Data

- Major update of Reference Points on the ITS-90 Temperature Scale
- Update of Laboratory Solvents and Other Liquid Reagents

Section 16: Health and Safety Information

- Update of Flammability of Chemical Substances
- Update of Threshold Limits for Airborne Contaminants to 2013 values

Appendix B:

- Update of Sources of Physical and Chemical Data

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Editorial Review

Review

"This newest edition includes most recent CODATA fundamental physical constants published in 2010; IUPAC atomic weight; and the records of mean global temperature and atmospheric carbon dioxide concentration through the end of 2012. Publisher of the first handbook was a family-owned company. In 1987, it was acquired by Times Mirror Co. Subsequent owners. This edition of Handbook of Chemistry and Physics serves the scientific community as a prime source of reliable information."

?Wonderpedia, March 10, 2014

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