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Mirroring the growth and direction of science for a century, the CRC Handbook of Chemistry and
Physics, now in its 92nd edition, continues to be the most accessed and respected scientific reference in the world, used by students and Nobel Laureates. Available in its traditional print format, the Handbook is also available as an innovative interactive product on DVD and online.

Among a wealth of enhancements, this edition analyzes, updates, and validates molecular formulas and weights, boiling and melting points, densities, and refractive indexes in the Physical Constants of Organic Compounds Table through comparisons with critically evaluated data from the NIST Thermodynamics Research Center.

New Tables:

Analytical Chemistry

- Abbreviations Used In Analytical Chemistry
- Basic Instrumental Techniques of Analytical Chemistry
- Correlation Table for Ultraviolet Active Functionalities
- Detection of Outliers in Measurements

Polymer Properties

• Second Virial Coefficients of Polymer Solutions

Updated Tables:

Properties of the Elements and Inorganic Compounds

• Update of the Melting, Boiling, Triple, and Critical Points of the Elements

Fluid Properties

- Major update and expansion of Viscosity of Gases table
- Major update and expansion of Thermal Conductivity of Gases table

- Major update of Properties of Cryogenic Fluids
- Major update of Recommended Data for Vapor-Pressure Calibration
- Expansion of table on the Viscosity of Liquid Metals
- Update of Permittivity (Dielectric Constant) of Gases table
- Added new refrigerant R-1234yf to Thermophysical Properties of Selected Fluids at Saturation table

Molecular Structure and Spectroscopy

- Major update of Atomic Radii of the Elements
- Update of Bond Dissociation Energies
- Update of Characteristic Bond Lengths in Free Molecules

Atomic, Molecular, and Optical Physics

- Update of Electron Affinities
- Update of Atomic and Molecular Polarizabilities

Nuclear and Particle Physics

• Major update of the Table of the Isotopes

Properties of Solids

- Major update and expansion of the Electron Inelastic Mean Free Paths table
- Update of table on Semiconducting Properties of Selected Materials

Geophysics, Astronomy, and Acoustics

• Update of the Global Temperature Trend table to include 2010 data

Health and Safety Information

• Major update of Threshold Limits for Airborne Contaminants

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