



Dictionary of Flavonoids with CD-ROM

By John Buckingham, V. Ranjit N. Munasinghe

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Widely distributed throughout plant families, flavonoids give many flowers and fruits their vibrant colors. They also play a role in protecting the plants from microbe and insect attacks. More importantly, the consumption of foods containing flavonoids has been linked to numerous health benefits. Recent research indicates that flavonoids can be nutritionally helpful by triggering enzymes that reduce the risk of certain cancers, heart disease, and age-related degenerative diseases. Foods that contain high amounts of flavonoids include blueberries, red beans, cranberries, and blackberries. Many other foods, including red and yellow fruits and vegetables and some nuts, as well as red wine and certain teas are also rich in flavonoids.

Due the potential health benefits, research into flavonoids and their potential beneficial effects on human health continues unabated. **Dictionary of Flavonoids with CD-ROM** lists all known flavonoids (approximately 13,000) in a single volume. It details chemical structures, physical properties, and biological source, and also includes a concise bibliography. Derived from the well-respected *Dictionary of Natural Products*, it is presented in a compact dictionary format, and is an invaluable reference source for all those working in this area. The book is accompanied by a CD-ROM fully searchable by chemical structure as well as by physical properties and chemical names.

Organized in alphabetical order, each page is packed with authoritative information that readers can easily access. The book and CD-ROM combination gives researchers powerful tools for unlocking and utilizing the secrets held within the colors of the plant kingdom.

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Editorial Review

Review

"Organized alphabetically, this dictionary of flavonoids is a major, up-to-date summary of all known flavonoids and their literature. This specialized dictionary is highly recommended for academic libraries."
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About the Author

John Buckingham is a former lecturer in organic chemistry at the University of London. He has been involved with the Chapman & Hall/CRC chemical database since its inception in 1980, initially as a Chapman & Hall employee, more recently as editorial consultant. From the database has been produced various editions of the *Dictionary of Organic Compounds* and the *Dictionary of Natural Products* (both of which have been for some years solely electronic). In addition, he compiled (with W. Klyne and later with R. A. Hill), two editions and supplements of the *Atlas of Stereochemistry* and has coauthored several other specialist dictionaries in the Chapman & Hall/CRC series. He is also the author of the popular science books *Chasing the Molecule* and *Bitter Nemesis: the Intimate History of Strychnine*.

V. Ranjit N. Munasinghe was formerly a senior lecturer in organic chemistry at the University of Colombo, Sri Lanka; research officer and visiting lecturer at Birkbeck College, University of London; and a research fellow in the chemistry department of Imperial College, University of London. He was also a senior research scientific officer at the National Institute for Medical Research (NIMR, MRC), London. With a B.Sc from the University of Colombo, Sri Lanka; Ph.D from Birkbeck College (1978); and DIC from Imperial College, University of London (1994); he has about 40 years of research and teaching experience in organic chemistry. Specializing in carbohydrate chemistry, his main areas of research included photochemical synthesis, deoxy sugars, branched chain sugars, C-glycosides, trisaccharides, and fluorescent conjugates of sialic acids. He has been involved with Chapman & Hall/CRC chemical databases since 1983 and has compiled (with Prof. P.M. Collins) *Carbohydrates* (1987) and *Dictionary of Carbohydrates* (1st Ed. 1998, 2nd Ed. 2006). He was also a consultant and compiler for the *Dictionary of Organic Compounds*, *Dictionary of Natural Products*, and *Dictionary of Food Compounds* (2nd Ed. 2013).

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