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Magnetic Properties of Free Radicals

Part d2

Organic Cation Radicals and Polyradicals

Index of Substances for Volumes II/1 and II/9

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Preface

1965 was the year of the first publication of tables on magnetic properties of free radicals in the New Series of Landolt-Börnstein. They formed a volume of 154 pages, complete in itself and containing all the magnetic data available at that time for ≈ 500 free radicals. 10 years later, the electron spin resonance spectroscopy of free radicals had become such a wide field of research – and that perhaps also with the assistance of the Landolt-Börnstein volume II/1 as the editors do hope – that a supplement to the tables became an urgent necessity. The extent of information had grown so tremendously that quite many experts had to be asked for cooperation; their critical compilations had to be published in several subvolumes.

Altogether, they form volume II/9, containing the data for ≈ 8000 free radicals on ≈ 3750 pages. The first of these subvolumes (II/9a) appeared in May 1977. The present subvolume (II/9d2) is the last of 6 subvolumes and includes besides the data on organic cation radicals and polyradicals, the comprehensive index of substances for both vol. II/1 and vol. II/9.

The large size of this volume II/9 shows the quick and unexpected development of the electron resonance spectroscopy for free radicals, resulting from the importance of the measured data for the further research and for application. We hope, the present critically evaluated compilation of all these data (altogether about 8500 substances in volume II/1 and Supplement II/9) will answer to these expectations.

We suppose that the research in this field has approached a certain degree of saturation in the meantime so that only supplements of a relatively small size will be necessary in the future. In accordance with the advice of competent experts, we reserved the elaboration of the spin-marked biomolecules, (as announced in the Survey of subvolume II/9a) for one of these supplements, as their investigation is still developing very quickly.

We wish to thank not only the authors of this subvolume but all authors of the whole volume II/9 for their agreeable cooperation. Thanks are due to the Landolt-Börnstein office too, especially Frau Helga Weise, for their untiring and careful checking of manuscripts and galleys, and Springer Verlag for their customary care in the preparation of the volume which has been published without financial support from any other source, just as all other Landolt-Börnstein volumes.

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The Editors