

III/35 Nuclear Magnetic Resonance (NMR) Data

Subvolume G: Chemical Shifts and Coupling Constants for Selenium-77 *)

Content

1	General introduction (H. DUDDECK, R.R. GUPTA, M.D. LECHNER, B. MIKOVA).....	1
1.1	Magnetic properties of nuclei.....	1
1.2	Spinning nuclei in magnetic fields	1
1.3	Theory of nuclear resonance	3
1.4	Chemical shift.....	4
1.5	Coupling constant.....	6
1.6	Organization of data	6
2	Selenium-77 NMR (H. DUDDECK).....	7
2.1	NMR spectroscopic properties of ⁷⁷ Se and its NMR parameters	7
2.1.1	Nuclear properties	7
2.1.2	Referencing	7
2.1.3	Medium effects.....	8
2.1.4	Isotope effects	9
2.1.5	Relaxation and nuclear Overhauser effect.....	10
2.1.6	⁷⁷ Se chemical shifts	11
2.1.7	Coupling constants involving ⁷⁷ Se	12
2.2	Explanations to the Data Tables	12
2.3	Abbreviations	13
3	Tables of Selenium-77 NMR parameters (H. DUDDECK).....	17
3.1	Table A: Compounds without selenium-metal contacts	17
3.2	Table B: Compounds with selenium-metal contacts	210
4	References	285

*) All data of this volume and additional data are provided on the CD-ROM added to this volume.