

# Table of contents

1	Introduction . . . . .	1
1.1	General remarks . . . . .	1
1.2	Experimental methods . . . . .	1
1.2.1	Spectroscopy . . . . .	1
1.2.2	Electron diffraction . . . . .	4
1.2.3	Combined use of diffraction and spectroscopy, theoretical calculations, or other methods . . . . .	6
1.3	Significance of geometric parameters . . . . .	7
1.3.1	Spectroscopy . . . . .	7
1.3.2	Electron diffraction . . . . .	9
1.3.3	Table of distance parameters and their definitions . . . . .	10
1.4	Uncertainties . . . . .	11
1.4.1	Microwave spectroscopy . . . . .	11
1.4.2	Infrared and Raman spectroscopy . . . . .	11
1.4.3	Electron diffraction . . . . .	12
1.5	Geometric structures of molecules in excited electronic states . . . . .	13
1.6	Arrangement of the tables . . . . .	16
1.6.1	General remarks on the content . . . . .	16
1.6.2	Presentation of the data and comments . . . . .	16
1.6.3	Order of molecules . . . . .	17
1.6.4	Nomenclature . . . . .	17
1.6.5	Figures and structural formulae . . . . .	18
1.6.6	Features of CD-ROM version . . . . .	18
1.7	References for 1.1–1.6 . . . . .	19
1.8	References to general literature . . . . .	21
1.8.1	General . . . . .	21
1.8.2	Microwave spectroscopy . . . . .	21
1.8.3	Infrared, Raman and electronic spectroscopy . . . . .	22
1.8.4	Electron diffraction . . . . .	23
1.9	List of symbols and abbreviations . . . . .	25
1.9.1	List of symbols . . . . .	25
1.9.2	List of abbreviations . . . . .	25
2	Inorganic molecules . . . . .	27