Interatomic distances, A				Bond angles, deg			
K1-04	2.8129(9)	Na1-O9i	2.4364(9)	O4-K1-O8	67.58(2)	04-C1-C2i	119.72(9)
K1-09	2.8511(8)	Na1-O4	2.5059(9)	O9-K1-O8	141.36(2)	O7iii-C1-C2i	114.85(8)
K1-O5	2.8596(9)	Na1-Na1i	3.4101(11)	O5-K1-O8	76.26(3)	O3-C2-C1i	111.25(7)
K1-O6	2.8680(10)	Na1-K1i	3.8880(7)	O6-K1-O8	83.29(3)	O3-C2-C4	109.82(8)
K1-O1	2.9130(9)	Na1-K1 ⁱⁱⁱ	4.1858(7)	O1-K1-O8	161.32(2)	C1i-C2-C4	108.04(8)
K1-O8	2.9353(9)	O3-C2	1.4136(12)	04-K1-03	69.95(2)	O6iv-C3-O1	125.86(9)
K1-O3	2.9396(8)	04-C1	1.2451(11)	O9-K1-O3	55.81(2)	O6 ^{lv} -C3-C4	115.29(9)
K1-O7	2.9487(10)	06-C3 ^{iv}	1.2518(13)	O5-K1-O3	143.96(3)	O1-C3-C4	118.77(9)
K1-Na1i	3.8880(7)	07-C1 ⁱⁱ	1.2611(13)	O6-K1-O3	68.51(2)	O9-C4-C3	114.88(8)
K1-Na1	3.9501(11)	09-C4	1.4231(12)	O1-K1-O3	69.59(3)	O9-C4-C2	107.65(7)
K1-Na1 ⁱⁱ	4.1858(7)	C1-C2i	1.5354(14)	O8-K1-O3	117.83(3)	C3-C4-C2	108.27(9)
Na1-03	2.3027(9)	C2-C4	1.5371(13)	04-K1-07	89.94(3)	O3-Na1-O2	96.61(4)
Na1-O2	2.3763(10)	C3-O6 ^{iv}	1.2518(13)	O9-K1-O7	69.39(2)	O3-Na1-O5 ⁱⁱⁱ	88.21(3)
Na1-O5 ⁱⁱⁱ	2.3809(10)	C3-C4	1.5340(14)	O5-K1-O7	81.44(3)	O2-Na1-O5 ⁱⁱⁱ	90.98(3)
Na1-04 ⁱ	2.3832(9)	O1-C3	1.2584(13)	O6-K1-O7	161.92(2)	O3-Na1-O4i	69.80(3)
Bond angles, deg				O1-K1-O7	89.20(3)	O2-Na1-O4i	88.59(3)
O4-K1-O9	75.57(2)	C1-O4-K1	142.54(6)	08-K1-07	98.66(3)	O5iii-Na1-O4i	157.79(3)
O4-K1-O5	141.07(2)	Na11-04-K1	96.53(3)	O3-K1-O7	124.51(2)	O3-Na1-O9i	160.11(3)
O9-K1-O5	133.79(2)	Na1-O4-K1	95.75(3)	C3-O1-K1	114.44(6)	O2-Na1-O9i	90.96(3)
O4-K1-O6	107.24(3)	Na1i-O5-K1	105.66(3)	C2-O3-Na1	119.16(5)	O5iii-Na1-O9i	110.10(3)
O9-K1-O6	119.57(2)	C3 ^{iv} -O6-K1	117.93(7)	C2-O3-K1	119.33(5)	O4i-Na1-O9i	92.12(3)
O5-K1-O6	81.59(3)	C1ii-O7-K1	118.93(7)	Na1-03-K1	97.04(3)	O3-Na1-O4	86.53(3)
O4-K1-O1	129.71(2)	C4-O9-Na1i	125.08(5)	C1-O4-Na1i	117.06(7)	O2-Na1-O4	176.71(3)
O9-K1-O1	57.32(2)	C4-O9-K1	108.25(6)	C1-O4-Na1	100.98(6)	O5 ⁱⁱⁱ -Na1-O4	90.11(3)
O5-K1-O1	88.29(3)	Na1'-09-K1	94.34(3)	Na1i-O4-Na1	88.42(3)	O4i-Na1-O4	91.58(3)
O6-K1-O1	84.10(3)	04-C1-O7 ⁱⁱⁱ	125.39(9)			09'-Na1-04	85.75(3)

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Tables of Interatomic Distances and Configuration in Molecules and Ions Leslie Sutton,1958 International Compendium of Numerical Data Projects CODATA (The Committee on Data for Science and Technology of the International Council of Scientific Unions),2012-12-06 At the time of its establishment in 1966 by the International Council of Scientific Unions ICSU the Committee on Data for Science and Technology CODATA was given the basic mission of promoting and encouraging on a worldwide basis the production and distribution of compendia and of collections of critically selected numerical data on substances other forms of interest and importance to science and technology To accomplish this aim the following tasks were assigned to CODATA 1 To ascertain on a worldwide basis what work on compilation of numerical data is being carried on in each country and under each union and from this information to prepare and distribute a Directory or Compendium of the Data Compiling Projects and Related Publications of the World 2 To achieve coordination of existing programs and to recommend new programs 3 To encourage from all appropriate sources financial support for work on compilation 4 To encourage the use of internationally approved symbols units constants terminology and nomenclature 5 To encourage and coordinate research on new methods for preparing and disseminating data for science and technology In its first two years of operation 1966 to 1968 in Washington D c U S A CODATA fortunately had as its Director Dr GUY WADDINGTON who was also Director of the Office of Critical Tables of the National Research Council NRC U S A Dr

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references and resources More than 4 400 references are included throughout the text March's Advanced Organic Chemistry provides information on Localized and delocalized chemical bonding and bonding weaker than covalent Microwave chemistry use of ultrasound mechanochemistry and reactions done under flow conditions Acids and bases irradiation processes stereochemistry structure of intermediates and ordinary and photochemical reactions Mechanisms and methods of determining carbocations carbanions free radicals carbenes and nitrenes Aliphatic alkenyl and alkynyl substitution additions to carbon carbon and carbon hetero bonds eliminations rearrangements and oxidations and reductions This 9th Edition of March's Advanced Organic Chemistry continues to serve as a must have reference for every student and professional working in organic chemistry or related fields *Tables of Interatomic Distances and Configuration in Molecules and Ions :* Supplement 1956-59,1965 Th Thorium Supplement Volume C 8 Michael Bickel, Horst Wedemeyer, 2013-04-17 This volume comprises the compounds of thorium with the 4th main group elements silicon and germanium and all 5th main group elements except nitrogen On the subject of ternary and polynary compounds containing oxygen only those compounds with phosphorus are included e g phosphates hypophosphates or phosphinates Similar compounds of the other ele ments like silicates arsenates etc were already treated in Thorium Suppl Vol C 2 1976 Most of the compounds in the different systems treated in this volume are of scientific interest because of their special physical and chemical properties On the other hand there are also many compounds which are of specific technological interest mainly in the nuclear field Refractory compounds like ThSi or ThP have potential interest as nuclear fuel for special reactors due to their physical properties like good heat conductivity and their chemical stability e g against the corrosion of cladding alloys for nuclear fuel elements Due to the present situation in the further development of the thorium nuclear fuel cycle their large potential has not yet been fully investigated For most of the binary and ternary phases in these systems we presently have good knowledge about the preparation of the compounds and their physical and chemical properties But nevertheless there are still a lot of open questions concerning phase equilibria solid solutions and homogeneity of some of the phases described in this volume Tables of Interatomic Distances and Configuration in Molecules and Ions: Supplement 1956-59, 1965 International

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selection and mounting of crystals and production of radiation through data collection and analysis to interpretation of results Each chapter is supported by a substantial collection of references and the volume ends with a section on precautions against radiation injury Eleven chapters have been revised corrected or updated for the third edition of Volume C More information on the series can be found at http it iucr org International Tables for X-ray Crystallography: Revised and supplementary tables to volumes II and III International Union of Crystallography,1974 Organic Photochromic and Thermochromic Compounds John C. Crano, Robert J. Guglielmetti, 2006-04-11 This major treatise on photochromism involving organic molecules and derived systems is a result of increased international interest in the field Volume 1 offers a detailed examination of the synthesis and specific photochromic properties of the best known photochromic and thermochromic compounds It includes numerous physico chemical methods by which photochromic substances can be studied as well as practical information and commercial applications for known photochromic families **Structure Data of Free** Polyatomic Molecules Natalia Vogt, Jürgen Vogt, 2020-01-02 This handbook presents structural data on free polyatomic molecules Since the structure of molecules defines the chemical physical and biological properties of matter this information is crucial for understanding explaining and predicting chemical reactions and biochemical processes developing new drugs and materials as well as studying interstellar media Covering the structural data published between 2009 and 2017 this book supplements the previous Landolt B rnstein volumes Structure Data of Free Polyatomic Molecules eds K Kuchitsu N Voqt M Tanimoto which included data from the literature published up to 2008 It systematizes and describes peculiarities of molecular structures for about 1000 compounds studied mainly by gas phase electron diffraction and rotational spectroscopy All structures are given in three dimensional representations **Annotated Accession List of Data Compilations of the** Office of Standard Reference Data National Measurement Laboratory (U.S.). Office of Standard Reference Data, Herman M. Weisman, Gertrude B. Sherwood, 1970 Tables of Interatomic Distances and Configuration in Molecules and **Ions** ,1965 **JANAF Thermochemical Tables** Joint Army-Navy-Air Force Thermochemical Panel,1965 Computational Science - ICCS 2007 Yong Shi, 2007-05-18 Part of a four volume set this book constitutes the refereed proceedings of the 7th International Conference on Computational Science ICCS 2007 held in Beijing China in May 2007 The papers cover a large volume of topics in computational science and related areas from multiscale physics to wireless networks and from graph theory to tools for program development The Analytical Chemistry of Silicones A. Lee Smith, I. M. Kolthoff, 1991-01-16 High Resolution Solid State NMR of Silicates and Zeolites Gunter Engelhardt and Dieter Michel I strongly recommend this book as an important reference for scientists concerned with the structural properties of siliceous materials Applied Spectroscopy This well organized and up to date text gives a thorough account of the wide range of applications of multinuclear high resolution solid state NMR spectroscopy in silicate and zeolite science with emphasis on the kinds of chemical information retrievable from NMR experiments 1988 0 471 91597 1 485 pp The Chemistry of Silica Solubility

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