

# Single-Component, Binary, and Ternary Oxide Glasses: Supplements to Parts A, B, C and D (Physical Sciences Data)



This volume is the fifth, and last, part of the Handbook of Glass Data: Part A: Silica Glass and Binary Silicate Glasses was published in 1983 and Part B: Single-Component and Binary Non-Silicate Oxide Glasses in 1985. Part C, published in 1987, covered Ternary Silicate Glasses and Part D: Ternary Non-Silicate Glasses was published in 1991. Thus, parts A-D covered properties of all single-component, binary and ternary oxide glasses and glass-forming melts. This part of the Handbook compiles appropriate data published in world literature since the preparation of the previous parts and until the end of 1990. The principles of data selection and presentation applied when compiling this book were as follows: 1. The book covers information on systems capable of forming glasses by cooling melts. 2. The data on melt properties are presented only for the glass-forming systems. Nevertheless, data is presented on melt properties over the whole range of concentrations, irrespective of whether this range is limited by a glass-forming region or not. 3. The notion of a component, which is very important for determining the number of components in each glass, is defined by the authors in the following way: (a) An oxide entering into the composition of a glass is considered a component. (b) If an analytical composition of a glass is given with impurities, these impurities are not to be taken into consideration when classifying glasses with respect to the number of components if there is no reason to believe that the given impurities considerably change the corresponding property. 4. Data on the crystallization rate of glasses are included since this characteristic should be considered as one of the most important properties of a glass. 5. In most cases, data on the so-called characteristic temperatures (deformation temperatures, upper and lower annealing points and others) are not

given. Littletons softening temperatures and glass transition temperatures are the main exceptions. According to Littleton the softening temperature conforms to the viscosity of 10 to the 7.65 poises, although it is possible that drastic composition variations may lead to some changes in this value. 6. When the original papers report viscosity and electrical conductivity logarithms accurate to three or four decimal places, the figures are rounded off to two decimal places, since with present experimental techniques a minimum measurement error of the indicated properties exceeds plus or minus 2% of a measured value even in the best investigations. In this volume all systems are united into large groups according to the valence of the elements forming the corresponding oxides. The sequence is as follows: glass formation, crystallization, density, thermal expansion and other thermal properties, optical properties, viscosity, elastic properties and internal friction, strength, surface tension, chemical durability, electrical properties, diffusion, permeation and solubility of gases, ion diffusion, volatility and magnetic properties. The experimental data are given in chronological order and data on glass properties are given in tabular form. This handbook should be of interest to those working in research laboratories of glass-making firms, university lecturers and students at undergraduate and postgraduate level involved with materials science.

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CONCENTRATES **Single-Component, Binary, And Ternary Oxide Glasses** Single-Component, Binary, and Ternary Oxide Glasses: Supplements to Parts A, B, C and D (Physical Sciences Data). No Image Available. Hardcover. **Physical Sciences Data: Handbook of Glass Data Pt. C : Ternary** Single-component, binary, and ternary oxide glasses: supplements to parts A, B, C, and D, Volume 5. Front Cover. Oleg Vsevolodovich B, C, and D, Volume 5. Volume 15 of Handbook of glass data Volume 15 of Physical sciences data **Single-Component, Binary, and Ternary Oxide Glasses** - Jun 3, 2004 The Journal of Physical Chemistry C 2016 120 (5), 2642-2654. Abstract Full Environmental Science & Technology 2015 49 (3), 1972-1980. Abstract Full Journal of Chemical & Engineering Data 2014 59 (10), 2955-2972. Abstract Full The Journal of Physical Chemistry B 2012 116 (9), 2787-2800. **Densities, Viscosities, and Refractive Indices of Binary Mixtures of** Results 1 - 10 Single-Component, Binary, and Ternary Oxide Glasses: Supplements to Parts A, B, C and D (Physical Sciences Data). No Image Available. **CiNii ?? - Physical sciences data** Oct 22, 2015 The measured density and speed of sound data were used to The intrinsic viscosities for the investigated binary and ternary systems were **Density and Refractive Index of Binary Mixtures of Two 1-Alkyl-3** May 13, 2010 The SAFT parameters for the glycerol pure component have been The dispersive binary interaction parameters  $k_{ij}$  have been Liquid-Liquid Equilibria in Ternary Mixtures of Methyl Oleate + The Journal of Physical Chemistry B 2012 116 (10), 3239-3248 Mitesh R. Shah and Ganapati D. Yadav. **Structure and Properties of Mixed Strontium? Manganese** Single-component, binary, and ternary oxide glasses: supplements to parts A, B, C, and D. Front Cover. Oleg Vsevolodovich supplements to parts A, B, C, and D Volume 15 of Handbook of glass data Volume 15 of Physical sciences data **Active Sites and Active Oxygen Species for Photocatalytic** Dec 22, 2009 Although a large diversity of single-component and binary superlattices from Citation data is made available by participants in CrossRefs Cited-by Linking service. Following the Assembly of Iron Oxide Nanocubes by Video Microscopy The Journal of Physical Chemistry B 2012 116 (20), 6017-6026. **Densities and Solubilities for Binary Systems of Carbon Dioxide** + Handbook of Glass Data, Parts A, B, & C: 3 Volume Set (Physical Sciences Data, B: Single-Component and Binary Non-silicate Oxide Glasses Part C: Ternary **Solubility Measurements and Saturated Liquid Properties of Ternary** [PDF]. Single-Component, Binary, And Ternary Oxide Glasses: Supplements To Parts A, B, C And D (Physical Sciences. Data) By O. V. MazurinM. V. Streltsina **Handbook of Glass Data: Part C, Ternary Silicate Glasses (Physical** Mar 20, 2017 The Journal of Physical Chemistry C A B C Letters Pre-1997 C , Just Accepted Manuscript In this work, we propose a three-binary-to-single-ternary (TBST) We first construct a full ternary CE by fitting to a database of density .. melting a glass filament in a 3-D printer has resulted in parts with **Intricate Hydrogen-Bonded Networks: Binary and Ternary** Mar 21, 2014 Department of Inorganic Chemistry, Physical Chemistry and This paper reports experimental data of density and refractive index for the Volumetric and viscometric properties of binary and ternary mixtures of M. Srinivasa Reddy , Sk. Md Nayeem , K. T. S. S. Raju , B. Hari Babu **SUPPLEMENTS. Adsorption Equilibrium of Xylene Isomers and p-Diethylbenzene on** Single-Component, Binary, And Ternary Oxide Glasses: Supplements To Parts A, B, C And D (Physical Sciences. Data) By O. V. MazurinM. V. StreltsinaT. P. **Electrical Properties and the Structure of Glasses in the  $x\text{Na}_2\text{O}(1$**  of a five-part comprehensive reference work on the properties of one-component. Have one to sell? Access codes and supplements are not guaranteed with used items. The Handbook of Glass Data cannot be recommended too strongly. Id like to read this book on Kindle Series: Physical Sciences Data, Isl **A Guide to Landolt Bornstein** Buy Single-Component, Binary, and Ternary Oxide Glasses: Supplements to Parts A, B, C and D (Physical Sciences Data) on ? **FREE SHIPPING** **Experimental Measurement and Modeling of Vapor-Liquid** Apr 25, 2017 Isobaric VLE data were reported for the ternary system at  $p = 101.3$  kPa. 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