

Smoothed isochores belonging to the uncorrected experimental points in Fig. 4 are shown as full lines in the same figure.

A discussion of the PVT data reported here, of the derivation of the equation of state used for fitting the results, and of some thermodynamic properties of molten potassium chloride calculated with

the aid of this equation will be published in a subsequent paper²⁷.

Acknowledgement

Financial support of this work by the Arbeitsgemeinschaft Industrieller Forschungsvereinigungen (AIF) from Funds of the Bundesministerium für Wirtschaft is gratefully acknowledged.

- ¹ L. V. Woodcock and K. Singer, *Trans. Faraday Soc.* **67**, 12 [1971].
- ² L. V. Woodcock, *Chem. Phys. Lett.* **10**, 257 [1971].
- ³ B. Cleaver, S. I. Smedley, and P. N. Spencer, *J. Chem. Soc., Faraday Trans. I* **68**, 1720 [1972].
- ⁴ H. S. Roberts, *Phys. Rev.* **23**, 388 [1924].
- ⁵ J. W. Johnson and M. A. Bredig, *J. Phys. Chem.* **62**, 604 [1958].
- ⁶ S. P. Clark Jr., *J. Chem. Phys.* **31**, 1526 [1959].
- ⁷ C. W. F. T. Pistorius, *J. Phys. Chem. Solids* **26**, 1543 [1965].
- ⁸ H. J. Gardner, C. T. Brown, and G. J. Janz, *J. Phys. Chem.* **60**, 1458 [1956].
- ⁹ S. E. Babb Jr., G. J. Scott, C. D. Epp, and S. L. Robertson, *Rev. Sci. Instr.* **40**, 670 [1969].
- ¹⁰ Laboratory of Deutsche Edelstahlwerke, Krefeld, Private Communication [1971].
- ¹¹ Data sheet, Henry Wiggin & Co., Ltd., Hereford, England.
- ¹² F. Garofalo, *Proc. ASTM* **60**, 738 [1960].
- ¹³ F. Garofalo, P. R. Malenock, and G. V. Smith, *ASTM Spec. Techn. Publ. Nr.* **129**, 10 [1952].
- ¹⁴ P. W. Bridgman, *Proc. Am. Acad. Arts Sci.* **58**, 165 [1923].
- ¹⁵ K. Grjotheim, J. L. Holm, B. Lillebuen, and H. A. Øye, *Trans. Faraday Soc.*, **67**, 640 [1971].
- ¹⁶ A. D. Kirshenbaum, J. A. Cahill, P. J. McGonigal, and A. V. Grosse, *J. Inorg. Nucl. Chem.* **24**, 1287 [1962].
- ¹⁷ R. W. Neithamer and J. S. Peake, *J. Chem. Eng. Data* **6**, 197 [1961].
- ¹⁸ E. R. Van Artsdalen and I. S. Yaffe, *J. Phys. Chem.* **59**, 118 [1955].
- ¹⁹ I. S. Yaffe and E. R. Van Artsdalen, *J. Phys. Chem.* **60**, 1125 [1956].
- ²⁰ J. S. Peake and M. R. Bothwell, *J. Am. Chem. Soc.* **76**, 2653 [1954].
- ²¹ H. Bloom, I. W. Knaggs, J. J. Molloy, and D. Welch, *Trans. Faraday Soc.* **49**, 1458 [1953].
- ²² V. P. Mashovetz and Z. F. Lundina, *Proc. 1st All-Union-Conf. Non-Aqueous Solutions*, 1935, pp. 191–212.
- ²³ W. Klemm, *Z. Anorg. Allgem. Chem.* **152**, 235 and 295 [1926].
- ²⁴ F. M. Jaeger and B. Kapma, *Z. Anorg. Allgem. Chem.* **113**, 27 [1920].
- ²⁵ F. M. Jaeger, *Z. Anorg. Allgem. Chem.* **101**, 1 [1917].
- ²⁶ E. Brunner, *Z. Anorg. Chem.* **38**, 350 [1904].
- ²⁷ G. Goldmann and K. Tödheide, *Z. Naturforsch.* **31 a**, [1976], in press.