[41] Holborn, L., and Otto, J., Uber die isothermen einiger gase zwischen 400 und −183 grad. (On the isotherms of various gases between 400 and −183 degrees C.), Z. Physik **33,** 1–11 (1925).

[42] Hanley, H. J. M., Comparison of the Lennard-Jones, Exp: 6 and Kihara potential functions using viscosity data of dilute argon, J. Chem. Phys. **44,** 4219 (1966).

[43] Private communication from M. Klein, National Bureau of Standards, Gaithersburg, Md. (1967).

[44] Hanley, H. J. M., and Klein, M., On the selection of the inter-molecular potential function: application of the statistical mechanical theory to experiment, NBS Tech. Note No. 360 (Nov. 1967).

Hanley, H. J. M., and Klein, M. On the selection of the inter-molecular potential function: Part 2, from pair properties, Trans. Faraday Soc. (in press).

[45] Roebuck, J. R., and Osterberg, H., The Joule-Thomson effect in argon, Phys. Rev. **46,** 785–790 (1934).

[46] Roebuck, J. R., and Osterberg, H., The Joule-Thomson effect in mixtures of helium and argon, J. Chem. Phys. **8,** 627–635 (1940).

[47] Michels, A., Levelt, J. M., and Wolkers, G. J., Thermo-dynamic properties of argon at temperatures between 0 and −140 degrees C and at densities up to 640 amagat (pressures up to 1050 atmospheres.), Physica **24,** 769–794 (1958).

[48] Michels, A., Lunbeck, R. J., and Wolkers, G. J., Thermo-dynamical properties of argon as function of density and and temperature between 0 and 150 degrees C and densities to 640 amagat, Physica **15,** 689–695 (1949).

[49] Weir, R. D., Jones, I. W., Rowlinson, J. S., and Saville, G., Equation of state of gases at low temperatures. Part 1. Second virial coefficients of argon and krypton., Trans. Faraday Soc. **63,** No. 534, 1320–1329 (1967).

[50] Holborn, L., and Otto, J., The isotherms of several gases up to 400 degrees and their importance for the gas thermom-eter, Z. Phys. **23,** 77–94 (1924).

[51] Holborn, L., and Otto., J., Isotherms for helium, nitrogen, and argon below 0 degrees C, Z. Phys. **30,** 320–328 (1924).

[52] Holborn, L., and Schultze, H., Uber die Druckwage und die Isothermen von Luft, Argon und Helium Zwischen 0 und 200 Degrees. (Concerning the pressure scale and the isotherms of air, argon, and helium between 0 and 200 Degrees), Ann. Phys. **47,** 1089–1111 (1915).

[53] van Itterbeek, A., and van Paemel, O., Measurements on the velocity of sound in gaseous argon and deuterium re-spectively at liquid oxygen and hydrogen temperatures. Calculation and discussion of the second virial coefficient of argon, Physica **5,** 845–853 (1938).

[54] Voronel, A. V., Snigirev, V. G., and Chashkin, Yu. R., Behavior of the specific heat C_v of pure substances near the critical point, Sov. Phys. JETP **21,** No. 3, 653–655 (Sept. 1965); Trans. of Zh. Eksp. Teor. Fiz. **48,** 981–984 (Mar. 1965).

[55] Lestz, S. S., Acoustic isotherms for nitrogen, argon, and krypton, J. Chem. Phys. **38,** 2830–2834 (1963).

[56] Sengers, J. M. H. L., and Vicentini-Missoni, M., Thermo-dynamic Anomalies near the Gas-liquid Critical Point, Proceedings of the Fourth Symposium on Thermophysical Properties, pp. 79–86 (1968).

[57] Heller, P., Experimental investigations of critical phe-nomena, Repts. Progr. Phys. **30,** Pt. 2, 731–826 (1967).

[58] Pings, C. J., and Teague, R. K., Experimental study of the shape of the coexistence curve of argon near the critical state, Phys. Letters **26A,** No. 10, 496–497 (Apr. 1968).

[59] van Witzenburg, W., and Stryland, J. C., Density measure-ments of compressed solid and liquid argon, Can. J. Phys. **46,** 811–816 (1968).