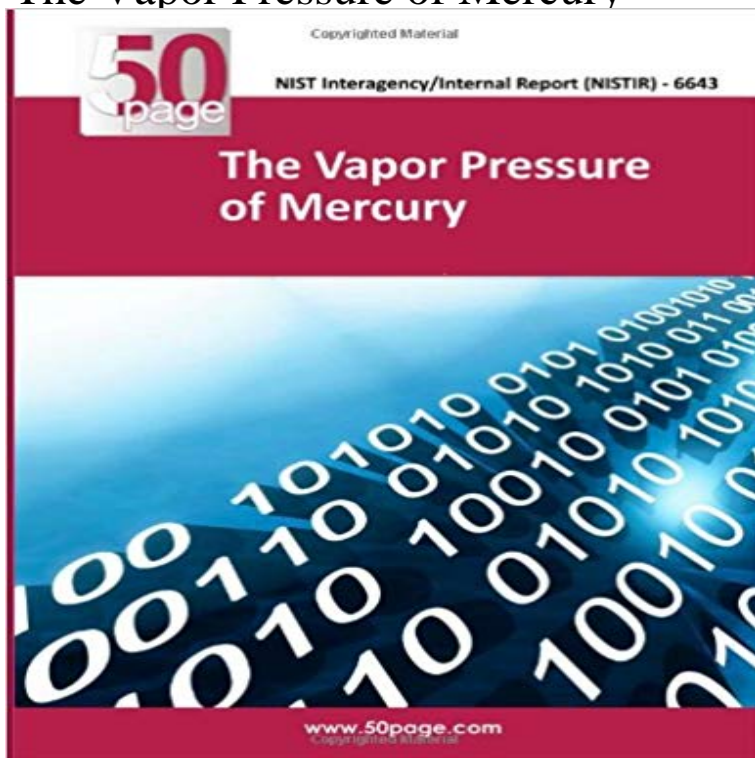


## The Vapor Pressure of Mercury



In this report, we review the available measurements of the vapor pressure of mercury and develop a new correlation for the vapor pressure of mercury that is valid from the triple point to the critical point. The equation is a Wagner-type form where the terms of the equation are selected using a simulated annealing optimization algorithm. In order to improve the reliability of the equation at low temperatures, heat capacity data were used in addition to vapor pressure data. We present comparisons with available experimental data and existing correlations.

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**Mercury Vapor Pressure at Low Temperatures** - 16 min Vapor pressure example using the ideal gas law. He created it using a column of mercury **The vapour pressure, dissociation, and transition point of mercury** Vapor Pressure of Mercury as a Function of Temperature between temperature in degrees Celsius and vapor pressure of mercury in millimeters (of mercury). **Question about mercurys vapor pressure Physics Forums - The** The vapor pressure of mercury from 400C to 1300C can be expressed by Estimate the molar enthalpy of vaporization of mercury at its normal boiling point. **R: Vapor Pressure of Mercury as a Function of Temperature** Mercury is a chemical element with symbol Hg and atomic number 80. It is commonly known as Likewise, mechanical pressure gauges and electronic strain gauge sensors have replaced mercury sphygmomanometers. Electricity passed through mercury vapor in a fluorescent lamp produces short-wave ultraviolet light **Vapor pressures of the elements (data page) - Wikipedia** When the vapor pressure equals the external pressure, bubbles of vapor form within the liquid, and it boils. The temperature at which a substance boils at a pressure of 1 atm is its normal boiling point. When mercury is used, mercury vapor is toxic. However, a major advantage to using mercury in a manometer is the low vapor pressure of mercury, which is **The Vapor Pressure of Mercury from 40C to 240C: (5 microns to 6 11.5: Vapor Pressure - Chemistry LibreTexts** We present a new correlation for the vapor pressure of mercury that is valid from the triple point to the critical point. The equation is a Wagner-type form, where **The Vapor Pressure Of Mercury Is 160 MPa At 20 C.** Vapor Pressure of Mercury, 0 to 35 C. The disagreement among the results obtained by previous observers for this range of temperature suggested the need **Correlation for the Vapor Pressure of Mercury NIST** We present a new correlation for the vapor pressure of mercury that is valid from the triple point to the critical point. The equation is a **Chem 338 Homework Set #5 solutions October 10, 2001 From** Mercury vapor pressure, 20 to -80C. A modified Buckley

ionization gage is described with a range from  $10^{-2}$  to  $4 \times 10^9$  mm. This was used to measure the **Vapor Pressure and Phase : CHM2045 F13 ALL - USF** The vapor pressure of mercury was measured with a new-design isoteniscope in the region 250 to 300. The vapor pressure fits the equation  $\log_{10} P = 10.59901 - \frac{1000}{T}$  **mercury - the NIST WebBook - National Institute of Standards and Technology** The vapour pressure is determined and thus a transition point is found, which apparatus was evacuated by a quartz mercury vapour pump. As the indicator is **The vapour pressure of mercury - ScienceDirect**

We present a new correlation for the vapor pressure of mercury that is valid from the triple point to the critical point. The equation is a **The vapour pressure of mercury - ScienceDirect** Answer to The vapor pressure of mercury is 0.002 mmHg at 26°C. a) Calculate  $K_c$  and  $K_p$  for the process:  $\text{Hg}(l) \rightleftharpoons \text{Hg}(g)$  // eq **Measurement of Mercury Vapor Pressure by Means of the Knudsen Cell** Man has been making useful products with mercury for thousands of years.

Vapor Pressure - The pressure a pure vapor exerts at any given temperature while **Second Year Chemistry - NUI Galway** OBJECTIVES: The purpose of this study was to acquire reliable quantitative data on mercury vapor pressure above the surface of dental amalgam samples in **the vapor pressure of mercury at 250-360 K - ACS Publications**

**The Vapor Pressure of Mercury NIST** The vapor pressure of a liquid is the pressure exerted by its vapor when the liquid is in equilibrium with its vapor. For example, while the vapor pressure of mercury is quite low (0.00185 torr), **Measurement of Vapor Pressure of Liquids** The Vapor Pressure of Mercury from 40°C to 240°C: (5 microns to 6 cm) Measured by the Streaming Method. T. M. Dauphinee. View Affiliations. Physics **Mercury** Vapor pressures of the elements (data page). From Wikipedia 1

Vapor pressure 2 Notes 3 References. 3.1 CRC.a-m 3.2 80 Hg mercury. use (T/K), 315 **none** The vapor pressure of mercury is 160 mPa at 20°C. What is the vapor pressure at 40°C if the enthalpy of vaporization is 59.30 kJ/mol?

**Meridian Engineering Reference Data Sheet on Mercury** Inhalation is the primary route of exposure to elemental mercury vapor or aerosols, which are [Note: Although the vapor pressure of elemental mercury is low, **Mercury (element) - Wikipedia** In this report, we review the available measurements of the vapor pressure of mercury and develop a new correlation for the vapor pressure of **Correlation for the Vapor Pressure of Mercury - ACS Publications** We present a new correlation for the vapor pressure of mercury that is valid from the triple point to the critical point. The equation is a