

# Maple User Manual

## Maple User Manual

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**DP Hallahan**



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p 5 atm n decane t 1300 k p 13 atm n decane and kerosene jet a t 1750 k p 9 atm jet a kerosene t 1320 k p 11 atm and jet a kerosene t 1380 k p 10 atm

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web a the vapor pressure curve of water intersects the p 1000 mmhg line at about 110 c this is therefore the boiling point of water at 1000 mmhg b the vertical line corresponding to 250 c intersects the vapor pressure curve of mercury at p 75 mmhg hence this is the pressure required for mercury to boil at 250 c

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web an examination of methods for calculating vapor pressure of petroleum hydrocarbon alan e zengel 1964 at high temperatures the vapor pressure of kerosene type hydrocarbons is difficult to measure accurately with laboratory apparatus be cause of difficulties in direct measurement of vapor pressure temperature

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web jan 4 2021 vapor pressure 5 mmhg at 100 f flash point 100 162 f vapor density 4 5 specific gravity 0 81 ionization potential lower explosive limit lel 0 7 upper explosive limit uel 5 nfpa health rating

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web vapour pressure of kerosene hydrocarbon the vapor pressure of a liquid is defined as the pressure exerted by the molecules that escape from the liquid to form a separate vapor phase above the liquid surface this pressure is formed in a thermodynamic equilibrium state in a closed container at a certain temperature

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web allow the gaseous phase thermodynamics to be curve fitted to 300k about 142k lower than the normal boiling point 542k 2 of kerosene nevertheless in actual calculations involving liquid kerosene fuel the heat capacity and latent heat of vaporization of liquid kerosene 12 are used for

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web as a general trend vapor pressures of liquids at ambient temperatures increase with decreasing boiling points this is illustrated in the vapor pressure chart see right that shows graphs of the vapor pressures versus temperatures for a variety of liquids

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web the vapor pressure of a liquid is defined as the pressure exerted by the molecules that escapes from the liquid to form a

separate vapor phase above the liquid surface the pressure exerted by the vapor phase is called the vapor or saturation pressure vapor or saturation pressure depends on temperature

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web sep 21 2022 a vapor pressure curve is a graph of vapor pressure as a function of temperature to find the normal boiling point of liquid a horizontal line is drawn from the y axis at a pressure equal to standard pressure

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web the graph of the vapor pressure of water versus temperature in figure pageindex 3 indicates that the vapor pressure of water is 68 kpa at about 90 c thus at about 90 c the vapor pressure of water will equal the atmospheric pressure in

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web nov 1 2003 droplet evaporation modeling by the distillation curve model accounting for kerosene fuel and elevated pressures

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web vapor pressure 0 1 psi at 100 f ntp 1992 vapor density relative to air 4 5 ntp 1992 heavier than air will sink specific gravity 0 8 at 59 f uscg 1999 less dense than water will float

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web in fact when the temperature increases from 20 to 60 c the vapor pressure of kerosene rises from 4 to 18 mbar 34 this suggests that kerosene cannot be entirely vaporized at 60 c

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web kerosene icsc 0663 physical chemical information physical state appearance low viscosity liquid with characteristic odour physical dangers as a result of flow agitation etc electrostatic charges can be generated vapour pressure kpa at 37 8 c 1 3 7 exposure health effects