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Phase Diagram Practice

Refer to the phase diagram below when answering the guestions

NOTE: "*Normal*" refers to STP – Standard Temperature and/or Pressure.



12) If a quantity of this substance was at an initial pressure of **1.25 atm** and a temperature of **300^o C** and was lowered to a pressure of 0.25 atm, what phase change(s) would occur?

13) If a quantity of this substance was at an initial pressure of 1.25 atm and a temperature of **0° C** and was lowered to a pressure of 0.25 atm, what phase change(s) would occur?

14) If a quantity of this substance was at an initial pressure of **1.0 atm** and a temperature of 200^o C and was lowered to a temperature of -**200^o C**, what phase change(s) would occur?

15) If a quantity of this substance was at an initial pressure of **0.5 atm** and a temperature of 200° C and was <u>lowered to a temperature of -**200**° C</u>, what phase change(s) would occur?

16) At what pressure would it be possible to find this substance in the gas, liquid, and solid phase? _____