

Report Sheet:**Ideal Gas Law****CHEM 101****CAPILANO
UNIVERSITY**

Department of Chemistry

LAST NAME: _____ SEC # _____ LOCKER # _____

FIRST NAME: _____ DATE: _____

Record all data in ink (blue or black only) at the appropriate location on this report sheet. All entries must be original and legible, and all corrections must be made in the acceptable way, with your lab supervisor's initials. Do not drop "leading zeroes". Show all calculations clearly and neatly. Failure to comply with these conditions will result in a loss of marks.

RAW DATA

- volume flask _____ mL → convert to litres: _____ L
 - initial mass: _____ g
 - final mass: _____ g
- ∴ mass condensate = _____ g
- temperature: _____ °C → convert to kelvins: _____ K
report to 2 decimal places
 - pressure: _____ kPa → convert to atm

CALCULATIONS AND CONCLUSION

Show the conversion of pressure from units of kPa to atm:

Use the unrounded answer in the next calculation.

_____ atm

Show the calculation of the molar mass of your unknown liquid:

Report your final answer in pen on the line below to 3 significant figures. Report the unknown's identity.

MM = _____ g/mol

Unknown liquid's identity: _____