

Henry's Law and Headspace Analysis

Name _____

Room Temperature _____ °C Density of water _____ g/mL

Bath Temperature _____ °C

V(H ₂ O) mL	V(headspace) mL	PA	V _{he} /V _w	1/PA

slope _____ ± _____

attach plot.

intercept _____ ± _____

H_i = Henry's Law Constant _____ ± _____ unitless

Δ_{sol}G^θ _____ ± _____ kJ/mol

H_p = K_{pX} = Henry's Law Constant _____ atm

Solubility for partial vapor pressure of 1 torr _____ mg/L