9/7

- Stats
- HW Exam 10 grading
- "Notes"

$C = kP$

conc. Henry's const. Pressure

If $k_H$ is in mol $L^{-1}$ $atm^{-1}$ ($M\ atm^{-1}$)

then C in mol $L^{-1}$ ($M$)

P in atm

from database $\quad 1\ m^3 = 1000\ L \quad 1\ atm = 101,325\ Pa$

$$k_H = \frac{3 \times 10^{-4}\ mol}{m^3\ Pa}\left(\frac{1\ m^3}{10^3\ L}\right)\left(\frac{101,325\ Pa}{1\ atm}\right)$$

$$= 3.204 \times 10^{-2}\ mol\ L^{-1}\ atm^{-1}$$

If $P = 1.5$ atm, what is conc (in $M$) of $CO_2$?

$$C = k_H P$$

$$= \frac{3.204 \times 10^{-2}\ mol}{L\ atm}(1.5\ atm)$$

$$= 0.04806\ mol\ L^{-1}$$

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Soap

sulfates (salt)