Answer on Question #78390 - Chemistry - General Chemistry

Question: The solubility of CO2 in water is 3.2×10–2M at 25 oC and 1 atm pressure.

What is the Henry's-law constant for CO2 in mol/(L·atm)?

Solution:

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The solubility:
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where:

S = kP,

S = solubility = 0.032 mol/L;

k = Henry's constant (unknown);

P = pressure = 1 atm;

k = S/P = 0.032/1 = 0.032 mol/(L·atm).

Answer: 0.032 mol/(L·atm).

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