Answer on Question #78447 - Chemistry - Physical Chemistry

Question: Estimate the osmotic pressure in 0.5 g/l solution of sucrose in water at 25 oC.

Solution:

π = cRT;

R = universal gas constant = 0.08206 L·atm/mol·K

c = c'/M= 0.5/324 = 0.0015 mol/L;

 $\pi = 0.0015*0.08206*(273+25) = 0.0377$ atm.

Answer: 0.0377 atm.

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