

Utorrent Solucionario Windows Pro X64 .zip

14 CAP. 6: ABSORCIÓN DE GASES

TABLA 6-4
Coeficiente de la ley de Henry en 10² atm/unidad de fracción molar

t, °C	SH ₂	CO ₂	CO	C ₂ H ₆	CH ₄	NO	C ₂	N ₂	Aire	H ₂
0	2,68	7,28	342	126	224	169	255	529	432	579
10	3,67	10,4	442	189	297	218	327	668	540	636
20	4,83	14,2	536	263	376	264	401	804	660	683
30	6,09	18,6	620	342	449	310	475	924	771	729
40	7,45	23,3	696	423	520	352	535	1040	870	751
50	8,84	28,3	761	500	577	390	588	1130	946	765
60	10,30	34,1	831	565	626	418	629	1200	1010	785
70	11,90		845	623	666	438	663	1250	1050	801
80	13,70		845	661	682	448	687	1260	1070	755
90	14,40		846	687	692	452	699	1260	1080	751
100	14,80		846	692	701	454	701	1260	1070	745

EJEMPLO 6-5.—Una mezcla gaseosa a la presión atmosférica normal y a 30° C contiene SH₂ en proporción tal que su presión parcial es 300 mm Hg en contacto con agua. Calcúlese la cantidad de SH₂ que se disolverá en 100 Kg de agua al alcanzarse el equilibrio entre fases.

Solución: De acuerdo con la ley de Henry,

$$x = p^*/H = \frac{300/760}{609} = 6,47 \cdot 10^{-4} \text{ moles de SH}_2/\text{mol de mezcla}$$

y

$$\frac{x}{1-x} \cdot (M_{SH_2}/M_{H_2O}), \text{ Kg SH}_2/\text{Kg H}_2\text{O}$$

Por tanto la cantidad de SH₂ disuelta en 100 Kg de agua será:

$$\frac{6,47 \cdot 10^{-4}}{1 - 6,47 \cdot 10^{-4}} \cdot \frac{34}{18} \cdot 100 = 0,122 \text{ Kg.}$$

EJEMPLO 6-6.—En las condiciones de equilibrio entre el agua y el CO₂ a 20° C se ha encontrado que la cantidad de CO₂ disuelta en agua es 0,01 g de CO₂ por 100 g de agua. Calcúlese la presión parcial del CO₂ en la fase gaseosa.

Solución: La concentración de la fase líquida expresada en fracción molar de CO₂ es:

$$x = \frac{0,01/44}{0,01/44 + 100/18} = 4,09 \cdot 10^{-5}$$

De acuerdo con la ley de Henry,

$$p^* = 1420 \cdot 4,09 \cdot 10^{-5} = 0,058 \text{ atm} = 44,1 \text{ mm Hg.}$$

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The living room in the way that the atmosphere created is the fundamental element of your house's facade. Living room or home front room must be comfortable if you do not plan to sell the house for quick. Most of us have a living room, which is a room to entertain guests. If the room is small or the room is exposed, then it looks very awkward. On the other hand, there is also a room that was sometimes used as a playground or the family room. You also have the opportunity to create this room for your kids, where they will be entertained by the toys. If you are planning to sell your house, then you will create a good atmosphere in the room. And the space in the living room also become a focus in your home. And the more space that the home has, the more buyers will consider your house, and more money you can get. But the room should be perfect in order to make the space does not seem empty. The space in the living room is divided into two areas, which is the living area and the space area. The living room space that is the most important thing to the visitor is the room. The first impression of the guest, which you can make if not maintained. The living room is mostly placed on the top of the area of the house, as a result of the sunlight that is falling, so it looks fresh and look at home. And the other is also important, the living room, which is the best impression of the house, 82157476af

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