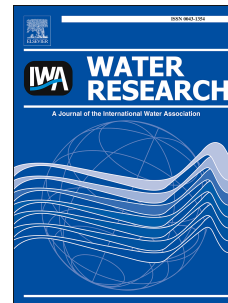


Accepted Manuscript

Determination of the Henry's law constants of low-volatility compounds via the measured air-phase transfer coefficients

Huan-Ping Chao, Jiunn-Fwu Lee, Cary T. Chiou



PII: S0043-1354(17)30342-1

DOI: [10.1016/j.watres.2017.04.074](https://doi.org/10.1016/j.watres.2017.04.074)

Reference: WR 12873

To appear in: *Water Research*

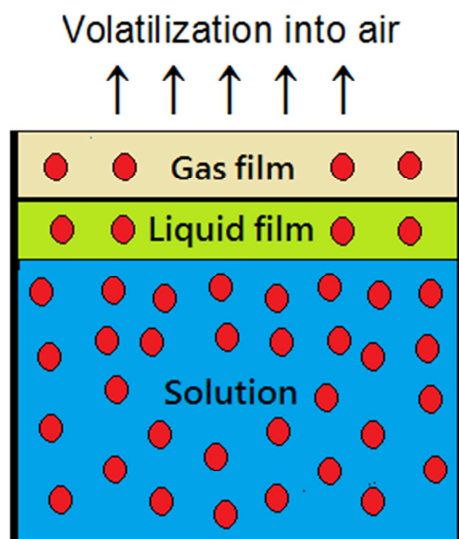
Received Date: 7 November 2016

Revised Date: 26 April 2017

Accepted Date: 29 April 2017

Please cite this article as: Chao, H.-P., Lee, J.-F., Chiou, C.T., Determination of the Henry's law constants of low-volatility compounds via the measured air-phase transfer coefficients, *Water Research* (2017), doi: 10.1016/j.watres.2017.04.074.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Henry's law constant (H)

$$H = K_L/k_G \text{ for low-}H \text{ solutes}$$

K_L = Volatilization coef.

k_G = Gas-phase transfer coef.

$$k_G = \beta(RT/2\pi M)^{1/2}$$

where β is a constant for all vapors at a given level of air dynamics

● low- H solutes ($H < 10^{-3}$)

Download English Version:

<https://daneshyari.com/en/article/5759186>

Download Persian Version:

<https://daneshyari.com/article/5759186>

[Daneshyari.com](https://daneshyari.com)