The extent to which chemicals distribute themselves between phases is important for the understanding of their fate in the environment. Recently, we developed a new method for the measurement of air-water distribution coefficients; the apparatus is shown in the Figure below (1). Our previous studies of phase distribution include the measurement of octanol-water (2,7,9) and sediment-water coefficients (5).

**Figure.** New apparatus for the measurement of air-water distribution coefficients for volatile organic compounds (1)

**Selected Publications**


2. Activity and distribution coefficients from measurements for volatile organic compounds distributed between air, water, and 1-octanol. Lodge, K. B.; Danso, D. *; Egyepong, E. J.*, 7th World Congress of Chemical Engineering, Glasgow, United Kingdom, July 10-14, 2005 (2005).


5. The measurement of the organic-carbon normalized partition coefficient, Koc, for dioxin from contaminated sediment. Lodge, Keith B., Advances in Environmental Research (2002), 7(1), 147-156.


7. Insights into the measurement of the octanol-water partition coefficient from experiments with acrylate esters. Edelbach, D.J.*; Lodge, Keith B., Physical Chemistry Chemical Physics (2000), 2(8), 1763-1771.
