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Battelle Number(s):

11632-E

Patent(s) Issued

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Available Technologies

Rapid Measurement of Volatile Compounds in an Aqueous Solution

SUMMARY

Analysis of a volatile compound in an aqueous solution is well known, typically involving a sample of the volatile compound-laden aqueous solution placed in a container with a head space filled with a gas and a vapor sensor. The disadvantage of this approach is the large amount of time for the gas in the headspace to reach equilibrium with the solution to enable an accurate measurement.

This patented technology significantly reduces the time needed to reach equilibrium by the incorporation of a gas or liquid sparger within the container.

ADVANTAGES

- * The device was designed to be easy to use.
- * It provides accurate and reproducible data.
- * It was designed to minimize waste generation.
- * This device provides results immediately after measurement.

RELATED LINKS

» **Microsparger Monitoring Probe**

http://agg.pnl.gov/research_areas/research_area_description.asp?id=97

Patents & Intellectual Property

- » Patent # 6,420,187

Technology Portfolio(s)

- » Monitoring

Potential Industry Applications

- » Agriculture & Mining
- » Chemicals
- » Oil & Gas
- » Recycling & Waste Management

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