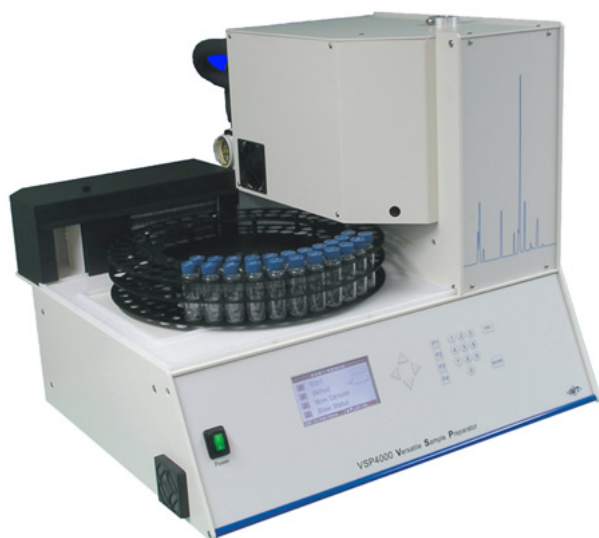


Worldwide Unique In-Vial Purge & Trap System

IMT's VSP4000 system enables carryover-free analyses by means of in-vial-purging

The system VSP4000 reaches a detection limit of 0.1 ppt (ng/kg) with standard deviations of less than 5% through its in-vial purging technique, whereby the sample vials function also as purge vessels.



For the analysis of volatile organic compounds (VOCs), the in-vial purge & trap technique, in combination with GC-MS, has become the method of choice particularly for the analysis of ultra traces. Optionally, the VSP4000 (*versatile sample preparator*) can be converted into a versatile thermodesorption system.

Conventional purge & trap systems employ **one** separate purge vessel for **all** samples. Even though it is rinsed with hot water, carryover effects in the ppt range are inevitable. With the in-vial purging technique, however, purgation is performed in each sample vial, thereby avoiding interference through carryovers.

In contrast to the headspace technique, purge and trap involves the analyte being extruded completely from the sample. This improves both detection sensitivity and reproducibility, because of a substantially greater amount of analyte is transferred into the headspace.

When organic substances are developed for use in many fields of everyday life, their risks need to be recognised and assessed. The powerful purge &

trap system VSP4000 is ideally suited to do just that. It enables up to 80 liquid or solid samples to be processed per cycle.

The reliable VSP4000 system thus fully meets the highest standards and keeps up with the ever rising requirements. A durable micropacked trap, usable for all analytes, enables approximately 2500 analyses.

Application areas in the purge & trap mode:

- Water, drinking water, mineral water, wastewater
- Plastics
- Soil
- Cosmetics
- Oils
- Food
- Isotype analysis

The operating mode can be modified from purge & trap to thermodesorption by exchanging a few components. Thus at the maximum sample temperature of 280°C many substances (e.g. PAH's, pesticides) can be reliably analysed after having been enriched in sample tubes.

Thermodesorption mode

- Easy-to-convert
- Air samples
- Samples filled in tubes or vials
- External VA chamber for large samples in single mode

www.chemie.de/products/e/88086/

Contact

More information on this product/service:



Supplier:
IMT Innovative Messtechnik GmbH

Product/service:
VSP4000

www.chemie.de/products/e/info/88086/

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