

## Advantages

- \* Ready to use and CE/IVD kit
- \* Simple, non-critical and rapid preparative phase
- \* Maximum specificity
- \* Recovery of analytes ranges from 90% to 100%



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**VOLATILE ORGANIC  
COMPOUNDS (VOC) IN  
URINE BY GC/MS-  
headspace**

**REF GC77010**

**UNIQUE**

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## Scenario

VOCs are metabolized quickly and yield several toxic metabolites that are excreted in urine.

Urinary VOC metabolites are valuable biomarkers to link health effects of these chemicals.

## Intended use

*In vitro* diagnostic device intended for the detection and quantitative analysis of 1-butanol, acetone, benzene, cyclohexane, cyclohexanol, cyclohexanone, chloroform, dichloromethane, ethanol, isobutanol, isopropanol, methanol, methyl ethyl ketone, methyl isobutyl ketone, perchloroethylene, styrene, toluene, o-m-p xylene in urine as aid in the diagnosis of occupational diseases. Manual method for professional use.

## Pre-analytical procedure

Inject 1 ml of **Reagent B1**, **Reagent B2**, **Reagent B3**, **Reagent B4** into GC/MS-headspace according to the instrumental specifications to identify the retention time of the different analytes.



## Analytical procedure

Dispense in a headspace vial:

- 2 ml of urine
- 8 ml of **Reagent A**
- 50 µl of **Reagent C**



Inject 1 ml of vapor phase into GC/MS or into instruments with equivalent parameters