

# Simplified sampling method for benzene

... Ihr Partner im Alltag.

#### Intention for development

- Benzene is relevant for authority approval
- DIN CEN/TS 15439 (tar guideline) is very complex and error prone

#### Our goal

Method for sampling benzene (from  $0.5 - 4.000 \text{ mg/m}^3$ ) which should:

- be easy to handle
- supply correct and reproducable results (>= 90 % recovery rate)

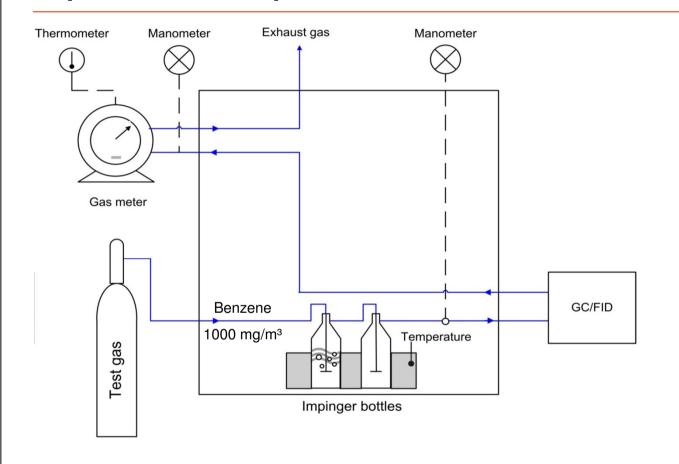
#### Consequence

- no isokinetic conditions (no dust or temperatures above 350 ℃)
- only 1 impinger bottle
- nontoxic solvent



## **Experimental set-up**

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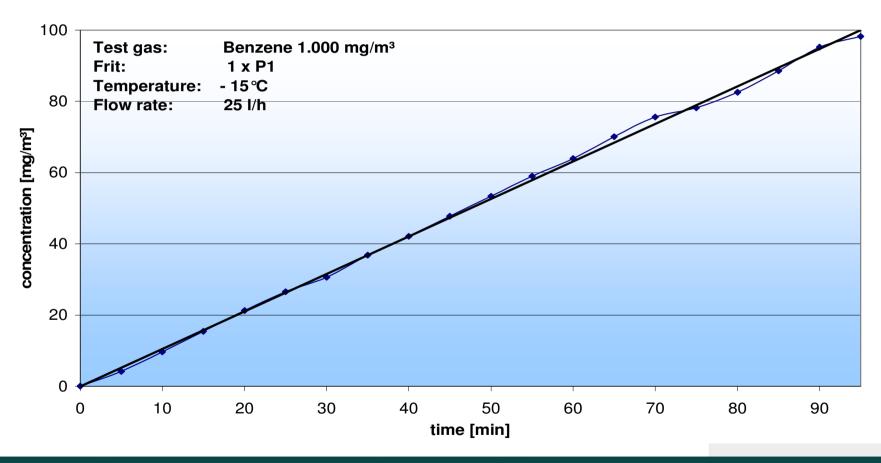
Complete absorption of benzene and output only by gas/liquid equilibrium



#### Benzene value in the exhaust gas (GC/FID)

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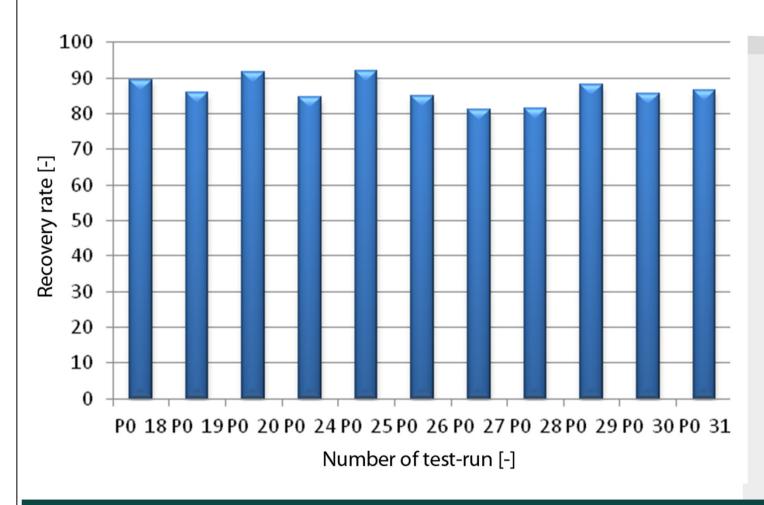
#### Test run 30.11.2010





## Recovery rate of benzene (impinger /exhaust gas)

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## Thanks for your attention



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#### Please feel free to ask...









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