Liquid Calibration System (LCS)
Direct calibration of instrument response using aqueous standards

Features

- Compatible with single standard and mixtures
- Precise liquid flow control
- Wide concentration range pptv – ppmv
- Fast response in seconds
- Wide volatility range up to C12 hydrocarbons
- Easily exchangeable liquid reservoir
- Cost effective compared to gas calibrations

Uses

- Determination of instrument sensitivity and detection limit
- Interpretation of gas-phase data
- Direct liquid analysis
- Trace contaminants in water analysis

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Liquid calibration of acetone
Linear and stable calibration is obtained with the continuous measurements from Vocus CI-TOF by simply adjusting the liquid flow rate of the standard.

Sensitivity Check on D6 Phenol
The predicted sensitivity of phenol (D6) can be estimated using the reaction rate coefficient. The LCS allows a fast measurement of the sensitivity to check the accuracy of the prediction. Predicted accuracy of 10% was achieved for D6 phenol.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Flow Rate</td>
<td>0 to 50 µL/min</td>
</tr>
<tr>
<td>Dilution Gas Flow Rate</td>
<td>0 to 2 L/min</td>
</tr>
<tr>
<td>Flow Precision</td>
<td>5%</td>
</tr>
<tr>
<td>Evaporation Temperature</td>
<td>100 to 200°C</td>
</tr>
<tr>
<td>Transfer Line Temperature</td>
<td>Ambient to 250°C</td>
</tr>
<tr>
<td>Size</td>
<td>25 x 15 x 10 cm, 4 kg</td>
</tr>
</tbody>
</table>

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