

# ISO 6145-6:2003-05 (E)

## Gas analysis - Preparation of calibration gas mixtures using dynamic volumetric methods - Part 6: Critical orifices

---

<b>Contents</b>		<b>Page</b>
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Principle .....</b>	<b>1</b>
<b>4</b>	<b>Application to preparation of gas mixtures .....</b>	<b>2</b>
<b>4.1</b>	<b>Description of the orifice system and the experimental procedure .....</b>	<b>2</b>
<b>4.2</b>	<b>Area of validity .....</b>	<b>4</b>
<b>4.3</b>	<b>Operating conditions .....</b>	<b>4</b>
<b>5</b>	<b>Calculation of operating parameters and results .....</b>	<b>4</b>
<b>5.1</b>	<b>Selection of suitable orifice systems .....</b>	<b>4</b>
<b>5.2</b>	<b>Calculation of volume fraction .....</b>	<b>5</b>
<b>5.3</b>	<b>Sources of uncertainty .....</b>	<b>5</b>
<b>5.4</b>	<b>Uncertainty of volume fraction .....</b>	<b>6</b>
<b>Annex A (informative) Premixed gases for preparation of mixtures of high dilution .....</b>		<b>7</b>
<b>Annex B (informative) Practical hints .....</b>		<b>9</b>
<b>Bibliography .....</b>		<b>11</b>