

# ISO 16703:2004-11 (E)

## Soil quality - Determination of content of hydrocarbon in the range C10 to C40 by gas chromatography

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>4</b>	<b>Interferences .....</b>	<b>2</b>
<b>5</b>	<b>Principle .....</b>	<b>2</b>
<b>6</b>	<b>Reagents .....</b>	<b>2</b>
<b>6.7</b>	<b>Hydrocarbon standard solution for calibration .....</b>	<b>3</b>
<b>6.8</b>	<b>Control solution .....</b>	<b>3</b>
<b>6.9</b>	<b>System-performance standard solution .....</b>	<b>3</b>
<b>7</b>	<b>Apparatus .....</b>	<b>3</b>
<b>8</b>	<b>Sampling, sample conservation and pretreatment .....</b>	<b>4</b>
<b>9</b>	<b>Procedure .....</b>	<b>5</b>
<b>9.1</b>	<b>Preparation of the clean-up column .....</b>	<b>5</b>
<b>9.2</b>	<b>Blank .....</b>	<b>5</b>
<b>9.3</b>	<b>Extraction and clean-up .....</b>	<b>5</b>
<b>9.4</b>	<b>Determination by gas chromatography .....</b>	<b>5</b>
<b>9.5</b>	<b>Quality control .....</b>	<b>7</b>
<b>10</b>	<b>Precision .....</b>	<b>8</b>
<b>11</b>	<b>Test report .....</b>	<b>8</b>
<b>Annex A (informative)</b>	<b>Examples of gas chromatograms of mineral oil hydrocarbon standard and soil samples .....</b>	<b>10</b>
<b>Annex B (informative)</b>	<b>Determination of the boiling range of mineral oil hydrocarbons from the gas chromatogram .....</b>	<b>16</b>
<b>Annex C (informative)</b>	<b>Precision data .....</b>	<b>17</b>
<b>Bibliography .....</b>		<b>18</b>