

# DIN EN 17306:2024-01 (E)

## Liquid petroleum products - Determination of distillation characteristics at atmospheric pressure - Micro-distillation

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	6
4	Principle .....	8
5	Reagents and materials .....	8
6	Apparatus .....	9
6.1	Micro distillation unit .....	9
6.2	Barometer for calibration .....	9
6.3	Sampling device .....	9
6.4	Waste beaker .....	9
7	Sampling .....	9
8	Apparatus preparation .....	10
9	Calibration, verification and quality control .....	10
9.1	General .....	10
9.2	Calibration .....	10
9.2.1	General .....	10
9.2.2	Temperature measurement system .....	10
9.2.3	Ambient pressure measuring device .....	11
9.2.4	Differential pressure measuring device .....	11
9.3	Instrument verification .....	11
10	Procedure .....	11
11	Calculation .....	12
12	Expression of results .....	13
13	Precision .....	13
13.1	General .....	13
13.2	Repeatability, $r$ .....	13
13.3	Reproducibility, $R$ .....	15
13.4	Bias .....	16
13.5	Relative bias .....	16
13.6	Repeatability and reproducibility for FAME .....	17
13.7	Relative bias for FAME .....	17
14	Test report .....	18
Annex A (normative) Micro distillation apparatus .....		19

<b>A.1</b>	<b>Detailed description of apparatus .....</b>	<b>19</b>
<b>Annex B (normative)</b>	<b>Precision of the volume percent evaporated or recovered at a prescribed temperature .....</b>	<b>23</b>
<b>Annex C (informative)</b>	<b>Typical samples .....</b>	<b>24</b>
<b>Bibliography</b>	<b>.....</b>	<b>25</b>