

# DIN EN 16997:2025-09 (E)

## Liquid petroleum products - Determination of the sulfur content in Ethanol (E85) automotive fuel - Wavelength dispersive X-ray fluorescence spectrometric method

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
1	Scope .....	4
2	Normative references .....	4
3	Terms and definitions .....	4
4	Principle .....	4
5	Reagents and materials .....	4
6	Apparatus .....	5
7	Sampling .....	5
8	Preparation of calibration solutions .....	7
8.1	Interferences .....	7
8.1.1	Background .....	7
8.1.2	FP method .....	7
8.1.3	Correction table .....	7
8.2	Blank calibration solution .....	7
8.3	Stock solution .....	7
8.4	Calibration solutions .....	7
8.5	Storage and stability of the calibration solutions .....	7
9	Settings .....	8
9.1	Measuring parameters .....	8
9.2	Optimization .....	8
9.2.1	Monochromatic excitation .....	8
9.2.2	Polychromatic excitation .....	8
9.3	Performance check of the spectrometer .....	8
10	Calibration .....	9
10.1	General .....	9
10.2	Calibration solutions .....	9
10.3	Calibration curves .....	9
10.3.1	Calibration without matrix correction .....	9
10.3.2	Calibration with matrix correction .....	10
10.4	Checking .....	10
11	Procedure .....	10
12	Expression of results .....	11
13	Precision .....	11
13.1	General .....	11
13.2	Repeatability .....	11
13.3	Reproducibility .....	12
14	Test report .....	12

<b>Annex A (informative) Fundamental parameters method background .....</b>	<b>13</b>
<b>Bibliography .....</b>	<b>14</b>