

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

Contents		Page
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

Annex A (informative) Fundamental parameters method background	13
Bibliography	14