

DIN EN 16906:2017-11 (E)

Liquid petroleum products - Determination of the ignition quality of diesel fuels - BASF engine method

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	6
5	Reagents and materials	6
6	Apparatus	7
6.1	General	7
7	Sampling	10
8	Standard operating and test conditions	10
9	Calibration, verification and quality control	11
10	Procedure	11
10.1	Engine check and warm-up	11
10.2	Bracketing procedure	11
10.2.1	Unknown sample	11
10.2.2	First primary reference fuel	12
10.2.3	Second primary reference fuel	12
10.2.4	Repeat readings	12
10.3	Procedure using a calibration graph	13
10.4	Shut-down of the engine	13
11	Calculation	13
11.1	Calculation for the bracketing procedure	13
11.2	Calculation for the calibration graph	14
12	Expression of results	14
13	Precision	14
13.1	General	14
13.2	Repeatability	14
13.3	Reproducibility	14
Annex A (informative) Evaluation example of the cetane number using a calibration graph		16
Annex B (normative) Auxiliary digital equipment		17
B.1	General	17
B.2	Apparatus	17
B.3	Set-up	17

B.4	Calibration	18
	Bibliography	19