

DIN EN 16136:2012-02 (E)

Automotive fuels - Determination of manganese content in unleaded petrol - Inductively coupled plasma optical emission spectrometry (ICP OES) method

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Principle	4
4	Reagents	5
5	Apparatus	5
6	Sampling	6
7	Preparation of solutions	6
7.1	General	6
7.2	Preparation of the manganese intermediate solution	6
7.3	Preparation of the calibration solutions	7
7.4	Preparation of manganese quality control solution	7
8	Calibration	7
8.1	General	7
8.2	Calibration of the ICP OES spectrometer	8
8.3	Check of the calibration	8
9	Sample analysis	8
9.1	Sample solution preparation	8
9.2	Sample solution measurement	8
10	Calculation	9
11	Expression of results	9
12	Precision	9
12.1	General	9
12.2	Repeatability, r	9
12.3	Reproducibility, R	10
13	Test report	10
Bibliography		11