

ISO 22854:2014-03 (E)

Liquid petroleum products - Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel - Multidimensional gas chromatography method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Principle	3
5	Reagents and materials	3
6	Apparatus	4
7	Sampling	5
8	Procedure	5
8.1	Conditioning	5
8.2	Sample preparation	5
8.3	Test sample injection volume	5
8.4	Verification of the apparatus and test conditions	5
8.5	Validation	5
8.6	Preparation of the test sample	6
8.7	Preparation of the apparatus and test conditions	6
9	Calculation	6
9.1	General	6
9.2	Calculation as % (m/m)	6
9.3	Calculation as % (V/V)	8
9.4	Calculation of total oxygen content in % (m/m)	9
9.5	Data report according to automotive motor gasoline specification	10
10	Expression of results	10
10.1	Procedure A	10
10.2	Procedure B	10
11	Precision	10
11.1	General	10
11.2	Repeatability, r	10
11.3	Reproducibility, R	11
12	Test report	11
Annex A (informative) Instrument specifications		13
Annex B (informative) Examples of typical chromatograms		15
Bibliography		20