DIN EN ISO 16591:2011-04 (E)

Petroleum products - Determination of sulfur content - Oxidative microcoulometry method (ISO 16591:2010)

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Principle 5

4 Reagents and materials 5

5 Apparatus 6

6 Samples and sampling 8

7 Apparatus preparation 8
7.1 Titration cell 8
7.2 Microcoulometer and recorder 9
7.3 Heating tape 9
7.4 Typical operating conditions 9

8 Apparatus verification and calibration curve construction 9

9 Procedure 10

10 Calculation 11

11 Expression of results 11

12 Precision 11
12.1 General 11
12.2 Repeatability, r 12
12.3 Reproducibility, R 12

13 Test report 12

Annex A (informative) Determination of sulfur contents below 1 mg/kg -- Standby technique 13

Annex B (informative) Troubleshooting 14

Annex C (informative) Calculation of sulfur content from electrochemical data 16

Bibliography 18