

# ISO 16591:2010-12 (E)

## Petroleum products - Determination of sulfur content - Oxidative microcoulometry method

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	1
3	Principle .....	2
4	Reagents and materials .....	2
5	Apparatus .....	3
6	Samples and sampling .....	5
7	Apparatus preparation .....	5
7.1	Titration cell .....	5
7.2	Microcoulometer and recorder .....	6
7.3	Heating tape .....	6
7.4	Typical operating conditions .....	6
8	Apparatus verification and calibration curve construction .....	6
9	Procedure .....	7
10	Calculation .....	8
11	Expression of results .....	8
12	Precision .....	8
12.1	General .....	8
12.2	Repeatability, $r$ .....	9
12.3	Reproducibility, $R$ .....	9
13	Test report .....	9
Annex A (informative) Determination of sulfur contents below 1 mg/kg -- Standby technique .....		10
Annex B (informative) Troubleshooting .....		11
Annex C (informative) Calculation of sulfur content from electrochemical data .....		13
Bibliography .....		15