

**The Appendix is an integral part of  
Certificate of Accreditation No: 279/2024 of 11/06/2024**

**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

**ORLEN UniCRE a.s.**

CAB number 1153, Analytical Chemistry Testing Laboratory  
Revoluční 1521/84, Ústí nad Labem-centrum, 400 01 Ústí nad Labem

**Testing laboratory locations:**

1. **Pracoviště Ústí nad Labem**                      Revoluční 1521/84, 400 01 Ústí nad Labem
2. **Pracoviště Litvínov**                              Záluží 1, 436 70 Litvínov

*Detailed information on activities within the scope of accreditation (determined analytes / tested subject) is given in the section „Specification of the scope of accreditation“.*

1. **Pracoviště Ústí nad Labem**

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1	Determination of mercury by AAS method using AMA 254	SOP-31 (ČSN 75 7440)	Waste waters, aqueous extracts, soils, composts, sludges, sediments, solid wastes	-
2	Determination of HCl emissions by spectrophotometry	SOP-91 (ČSN EN 1911)	Absorption solutions	-
3	Determination of ammonia emissions by spectrophotometry	SOP-94 (ČSN 83 4728-4)	Absorption solutions	-
4	Determination of fluorine emissions by spectrophotometry	SOP-95 (ČSN 83 4752-2:1990; ČSN 83 4752-4:1990; ČSN P CEN/TS 17340)	Absorption solutions	-

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
1	Aqueous extracts according to ČSN EN 12457-4

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2. Pracoviště Litvínov

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1 – 3	Reserved			
4	Determination of C, H, S, N by Flash 2000 elemental analyzer	SOP-L3/2 (ČSN ISO 29541; Flash 2000 Operation Instructions)	Liquid and solid petroleum products, used catalysts	-
5	Determination of low nitrogen content by combustion method with chemiluminescence detection	SOP-L3/4 (ASTM D4629)	Liquid and solid petroleum products	-
6	Determination of impurities by IMR-MS and purity of hydrogen by calculation from measured values	SOP-L4/1A (ČSN ISO 14687)	Hydrogen fuel (gas)	-
7	Determination of water content by resonance method	SOP-L4/1B (ČSN ISO 14687)	Hydrogen fuel (gas)	-

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
6	acetylene, ethylene, ethane, propylene, butane, pentane, benzene, toluene, xylenes, carbon disulfide, methyl mercaptan, ethyl mercaptan, hydrogen sulfide, carbonsulfide, bromoform, tetrachloroethylene, 1,2-dichloroethane, trichloroethylene, trichloromethane+dichlorobromomethane, dichloromethane, HCl

Explanations:

Simulated distillation – gas chromatography with flame ionization detection

IMR-MS – Ion Molecular Radio Mass Spectrometry

HPLC – High Performance Liquid Chromatography

AAS – Atomic Absorption Spectrophotometry

*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "*