DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-20519-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 09.06.2016 to 08.12.2019 Date of issue: 09.06.2016

Holder of certificate:

Honeywell Specialty Chemicals Seelze GmbH
Technical Service HYDRANAL
Wunstorfer Straße 40, 30926 Seelze

Tests in the fields:

volumetric and gravimetric analyzes on the determination of water in organic and inorganic liquids, solids and Karl-Fischer-Reagents using volumetric KF-Titration, coulometric KF-Titration, indirect Karl-Fischer-oven technology and determination of loss on drying

Abbreviations used: see last page

*Within the given testing field marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following:*
the modification, development and refinement of testing methods.
The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

1 Determination of the water content in organic and inorganic liquids, solids and Karl-Fischer-Reagents by Karl-Fischer-Titration

ISO 760 1978-12	Determination of water; Karl Fischer method (General method)
ASTM E 203 2008	Standard Test Method for Water Using Volumetric Karl Fischer Titration
DIN 51777-1 1983-03	Testing of mineraloil hydrocarbons and solvents; determination of water content according to Karl Fischer; direct method

DIN 51777-2 1974-09	Testing of Mineral Oil Hydrocarbons and Solvents; Determination of Water Content according to Karl Fischer; Indirect Method
Ph. Eur. chapter 2.5.32	micro determination of water – coulometric titration
Ph. Eur. chapter 2.5.12	Semi-micro determination of water – volumetric titration
Test method 01 Technical Service HYDRANAL 27.05.2014	Determination of water content in liquids and solids using volumetric Karl-Fischer-Titration
Test method 02 Technical Service HYDRANAL 09.04.2014	Determination of water content in liquids and solids using coulometric Karl-Fischer-Titration
Test method 03 Technical Service HYDRANAL 09.04.2014	Determination of water content in liquids and solids using indirect Karl-Fischer-oven method

2 Determination of physical characteristics using gravimetric methods

Ph. Eur. chapter 2.2.32	Loss on drying
Test method 04 Technical Service HYDRANAL 28.08.2009	Determination of water content in organic and inorganic solids by Loss on drying

Abbreviations used:

ASTM	Standard Methods, American Society for Testing and materials
DIN EN	German takeover of European Standard
DIN	Deutsche Institut für Normung e. V.
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
KF	Karl Fischer
Ph. Eur.	European Pharmacopoeia