



DFM

Danish National Metrology Institute

HIGH-PRECISION COULOMETRIC TITRATION



COULOMETRY AT DFM

In many industries quality assurance requires a detailed and precise knowledge of chemical substances. In certain situations, for instance titrant materials such as acids or bases, analysis of chemical substances often requires prior knowledge of other chemical materials used for the analysis.

As a solution to these kinds of problems, DFM now offers amount substance analysis via coulometric titrations, where the amount substance can be related to precise measurements of mass and charge and not to the amount content of any other reactant.

MEASUREMENT OF H⁺ IN HCL (AQ)

DFM is capable of high precision measurement of the amount content of protons in hydrochloric acid solutions with a nominal concentration of 0.1 M or higher.

ACCREDITATION

DFM is accredited for amount substance analysis via coulometric titrations under DANAK accreditation reg. No. 255. The calibrations are performed in DFM's laboratories.



DANAK

CAL Reg. Nr. 255



PRODUCT DATASHEET rev#_2021-03-22
ELECTROCHEMISTRY

CALIBRATION AND MEASUREMENT CAPABILITIES (CMC)

Parameter	Range	Uncertainty (k=2)
Molality	0.099 - 0.11 mol/kg	3.2 mol/kg

SERVICES

DFM offers other services besides calibrations. We can offer the following services:

- Custom measurements
- Characterization of equipment, samples, etc.
- Review of measurement methods, procedures and setups
- Development of custom calibration methods or measurement setups

For more details about our services, please visit www.dfm.dk or www.dfm-metrology.com

ABOUT DFM

DFM is Denmark's National Metrology Institute (NMI). DFM is a signatory to the CIPM-MRA arrangement that ensures mutual recognition of measurements worldwide

TRACEABILITY

All measurements are traceable to recognized national and international standards.

ISO CERTIFICATION

All services are covered by DFM's ISO 9001 certification

CONTACT DFM

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