

CHIMIA-REPORT

Bitte an die Inserenten

Richten Sie Ihre Beiträge für die Rubrik CHIMIA-REPORT nicht an die Redaktion, sondern ausschliesslich an: Kretz AG, Postfach, CH-8706 Feldmeilen
Besten Dank!

Metrohm-KF-Coulometer 756 und 831: Bestimmung des Wassergehalts in Biodiesel nach ISO 12937



In der Norm ISO 12937 «Mineralölzeugnisse – Bestimmung des Wassergehaltes – Coulometrische Titration nach Karl Fischer» wird die coulometrische Titration nach Karl Fischer zur Bestimmung des Wassergehalts beschrieben. Die KF-Coulometer 756 und 831 von Metrohm erfüllen spielend alle von der Norm geforderten Spezifikationen und eignen sich hervorragend für diese Applikation. In den meisten Fällen kann die Probe direkt mit einer Spritze in die Reaktionslösung injiziert werden. Um die Löslichkeit der Proben zu verbessern, wird das KF-Reagenz mit Xylol (Dimethylbenzol) versetzt. Anhang B der Norm beschreibt zudem die volumetrische Bestimmung

des Wassergehalts. Auch hierfür hat Metrohm die passenden Titratoren. Viele Biodiesel-Treibstoffe enthalten Additive, welche im Verlauf der coulometrischen Karl-Fischer-Direkttitration Nebenreaktionen eingehen können. In diesen Fällen empfiehlt Metrohm, die Biodieselprobe nicht direkt in die Reaktionslösung zu injizieren. Stattdessen sollte das im Biodiesel enthaltene Wasser mit der KF-Ofenmethode, unter Verwendung des Ofens KF-Thermoprep 832, bei 120 °C ausgetrieben und mittels Trägergasstrom (trockene Luft oder Inertgas) in die Titrierzelle des Coulometers eingeleitet werden.

Mit dem Oven Sample Processor 774 lässt sich dieser Prozess vollständig automatisieren.

Detaillierte Informationen finden Sie hier:

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Leserdienst Nr. 2

Calibrate your micropipettes in seconds with the innovative XP26PC microbalance

The new XP26PC liquid handling calibration device from METTLER TOLEDO is the fastest and most user-friendly system available for calibrating single channel micropipettes. In just a few seconds it can calibrate dispensed volumes as low as 1 µl, complying with the ISO 8655 standard, and bringing easy and accurate calibration to every laboratory.

The sophisticated XP26PC is based on METTLER TOLEDO's Excellence plus XP26 microbalance and has a number of unique features that bring enhanced efficiency to your workflow, including an integrated light barrier for hands-free

operation that activates the evaporation trap door whenever a pipette passes through. The trap's new design reduces evaporation to an absolute minimum, vastly improving the weighing stability, calibration time and usability of the device. An integrated pipetting container with a 10 ml capacity reduces the frequency of process interruptions for emptying the container. The XP26PC also includes a calibration kit for regular testing of the balance, with a 1 g OIML-certified weight, a special weighing pan and a pair of tweezers.

METTLER TOLEDO's pipette calibration software Calibry comes



with a simple wizard for defining the pipettes, selecting the appropriate methods and providing a step-by-step guide throughout the calibration process. Calibration re-

ports are produced and every single operation is recorded, providing full traceability that meets 21 CFR Part 11 requirements. The Calibry software can be validated, and both a validation manual and validation service are available from METTLER TOLEDO.

For more information about METTLER TOLEDO, please contact:

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Leserdienst Nr. 3

Clariant führt neue Nanozeolite ein und lanciert neue Website

Clariant, ein weltweit führender Hersteller von Spezialchemikalien, konzentriert seine wissenschaftlichen Aktivitäten im Bereich Nanotechnologie auf die Herstellung und Anwendung einer Reihe von nanoporösen Zeoliten mit aussergewöhnlichen physikalischen Eigenschaften. Das Unternehmen hat soeben seine neue englischsprachige Website für Nanozeolite lanciert (www.zeolite.clariant.com).

In enger Zusammenarbeit mit angesehenen akademischen Institutionen hat Clariant einen Prozess zur Herstellung von qualitativ hochwertigen Nanozeoliten in technischen Mengen entwickelt. Die neue Reihe nanoskalierter Aluminosilikate mit dem Namen Lucidot® öffnet ein komplett neues Spektrum an Möglichkeiten für biochemische Prozesse, darunter Molekularsiebe, Ionentauscher, selektive Adsorbentien und Katalyse. Wenn Lucidot® beispielsweise in Kombination mit fluoreszierenden Farbstoffen eingesetzt wird, kann es bei der Entwicklung leistungsfähigerer dünner Solarzellen und Fluoreszenzkon-

zentratoren sowie energetisch optimierter lichtemittierender Dioden (LEDs) helfen.

Clariant bietet jetzt zusätzlich zu Lucidot® NZL 40 die brandneuen Nanozeolite Lucidot® DISC an. Mit ihrer besonderen Morphologie sind diese flachen Scheiben von besonderem Interesse für die Herstellung ausgerichteter Schichten auf passenden Substraten sowie für das Andocken an Zellwände von lebenden Mikroorganismen.

Clariant wird diese Neuentwicklungen im Bereich Nanozeolite auf der 20. Deutschen Zeolit-Tagung zeigen, die vom 5. bis 7. März 2008 an der Martin-Luther-Universität in Halle-Wittenberg abgehalten wird.

Weitere Informationen über die Nanozeolite von Clariant:

- Clariant Produkte
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Leserdienst Nr. 4

DLReady™ Certification for the Omega Series of Microplate Readers – BMG LABTECH's Newest Series of Multifunctional Readers with Unique High Speed Full Spectrum Absorbance



DLReady™ certification, awarded by Promega Corp., validates an instrument that has passed the strict performance levels and standards required for the Dual-Luciferase Reporter (DLR™) assay system. DLR™ is one of the most commonly used luminescence assays for measuring gene transcription in a microplate format. Using firefly and Renilla luciferases as reporter genes, the DLR™ Assay System rapidly quantifies gene expression in transfected cells or in cell-free transcription/translation reactions.

BMG LABTECH's FLUOstar Omega, POLARstar Omega, and LUMIstar Omega have all been certified by Promega. The Omega is the world's only DLReady™ multidetection microplate reader that can capture a full absorbance spectrum (220 to 850 nm) at a resolution of 1 nm. Read times faster than 1 second per well are possi-

ble. This makes the Omega the 3rd series of BMG LABTECH life science readers that have been DLReady™ certified, along with the OPTIMA and Galaxy series and the NOVOstar microplate reader with micropipettor.

For technical information on performing the DLR™ assay on the FLUOstar Omega, POLARstar Omega, or LUMIstar Omega microplate reader, an application note can be downloaded at: www.bmg-labtech.com/application-notes/luminescence/dlr.cfm.

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Leserdienst Nr. 5

Solvias AG constructs new building in Kaiseraugst



The Board of Directors of Solvias AG in Basel has decided to build a new headquarters in Kaiseraugst. The preliminary contract to buy the land was signed at the start of January 2008, with construction work due to start in a few months' time.

Solvias AG is preparing for further growth by building the planned new offices and laboratory. This is a big step forward in the company's near ten-year history. In addition to creating space for growth, it will also enable Solvias to nurture its independent culture in its own build-

ing more intensively. New jobs will be created in the attractive working and residential environment of Römeggarten in the Fricktal region. As a reliable partner for the Life Science industry, Solvias will fit in well with the existing companies in the area, Roche and DSM.

The functional yet elegant new building has been designed by the Basel architects Zwimpfer Partner and the laboratory and offices will be able to accommodate up to 300 modern workplaces. An additional area of land has been contractually secured for further growth. The move to Kaiseraugst is due to take place in mid-2010. The synthesis and catalysis business segment, which employs around 50 people, will not move but will remain in its current location at Rosental in Basel-Stadt.

«The new building in Kaiseraugst is an important strategic decision for the development of the company. Our future requirements will be very well met by the location and the project. This will enable us to react flexibly to changing market conditions and customer requirements,» said Hansjörg Walther, CEO of Solvias

AG. «The local community and the canton of Aargau offer ideal conditions for the future development of Solvias.»

Solvias is a privately held company located in Basel/Switzerland. With 280 highly qualified employees we support the research and development of new drug substances and the optimization of manufacturing processes for pharmaceutical and biotechnology companies worldwide. Solvias' customers benefit from a wide range of experience in catalysis, asymmetric synthesis, custom synthesis, process R&D, polymorphism screening, salt selection, and analytical services.

The Media Relations department of Solvias AG will be happy to provide any further information:

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Leserdienst Nr. 6

WORK AT THE UNIVERSITY OF GENEVA

The School of Chemistry and Biochemistry of the Faculty of Sciences of the University of Geneva, Switzerland, has an opening for a position of

Senior Lecturer (Maître d'enseignement et de recherche) in chemical crystallography

Responsibilities: Full time position including teaching, research and service in the area of chemical crystallography. A solid experience in the methods of X-ray diffraction and single crystal structure resolution is indispensable. Experience in powder diffraction, small angle scattering and novel developments employing synchrotron radiation sources are a plus.

Title required: PhD in chemistry or crystallography or related research area.

Starting date: 1st August 2008 or as agreed.

Applications including curriculum vitae, list of publications, and account of work experience should be addressed before the 31st March 2008 to Prof. A. Hauser, Président de la Section de chimie et biochimie, 30 quai Ernest-Ansermet, CH-1211 Genève 4, Switzerland, where further information concerning the job description may be obtained.

The University of Geneva is an equal opportunity employer and encourages applications from women.



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