Gravimetric Certificate

Dr. Ehrenstorfer

Reference Materials for Residue Analysis

Product Identification

13772000 Fluoroacetic acid sodium salt
Formula C2H2FNaO2
Mol.Weight 100.02
CAS No. 62-74-8

Expiry Date 26.08.2013
Lot Number 00826WA
Store at 20°C in the dark

Please note: The expiry date is valid under recommended storage conditions only.

Gravimetric Data

Product Name	Conc. (mg/l)	Purity %	Weight (mg)
Fluoroacetic acid sodium salt	10.000	99.0	1.012

Solvent Information

Solvent	Lot No.	Exact Quantity (ml)
Water	1005400016	100.00

Traceability Data

13772000 80930	neat product
13772000 00826WA	10.000 mg/l

Analytical Data

Detection: LC/MSD
Column: ReproSil 100 C18 5µ 250x3
Inj.-Vol.: 10.00 µl
Flow: 0.5 ml/min
Ret.-Time: **1.60 min.**

Method Details:
Acetonitrile:H2O 4:1

Identity check RT, MS
Comment

The uncertainty/tolerance of this standard is +/- 2.0 %, calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U which is Uc(y)*K, where K is the coverage factor at the 95% confidence level (K=2). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.

Certified on 19.10.2012
by P. Feuerriegel

Data File E:\GERÄTE_BACKUP\DAD2\201210KW41\13772000-21.D
Sample Name: 00826WA

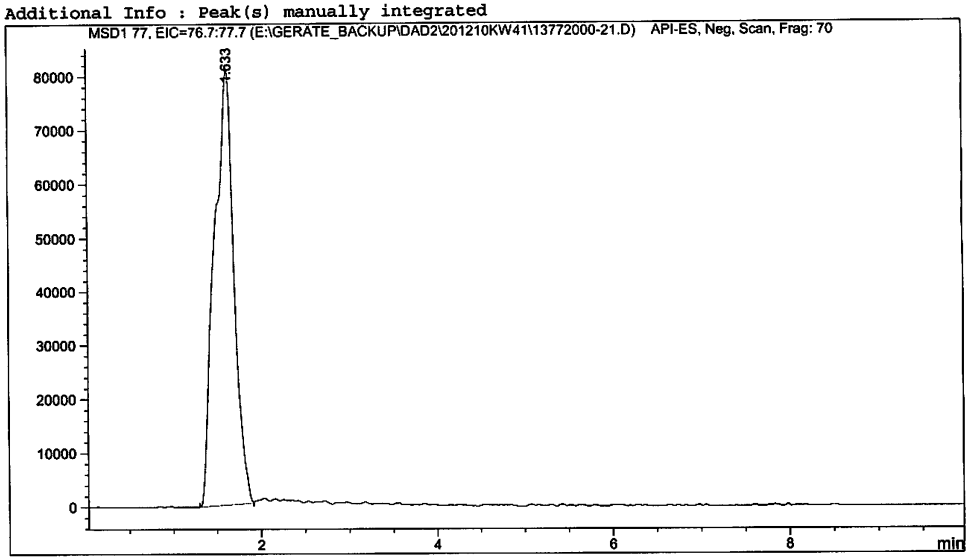
19.10.12

Acq. Operator	:	Seq. Line	: 11
Acq. Instrument	: DAD2	Location	: Vial 33
Injection Date	: 12.10.2012 15:18:29	Inj	: 1
		Inj Volume	: 10.000 µl

Acq. Method : D:\CHEM32\1\METHODS\41MSNEG.M
Last changed : 13.03.2012 08:43:49
Analysis Method : E:\GERÄTE_BACKUP\DAD2\METHODS\41MSNEG.M
Last changed : 19.10.2012 11:24:25
(modified after loading)
Method Info : Acetonitrile : Water 4:1 negative Ionisierung

Sample Info : Fluoroacetic acid sodium salt

Additional Info : Peak(s) manually integrated



Area Percent Report

Sorted By : Retention Time
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: MSD1 77, EIC=76.7:77.7

Peak #	RetTime [min]	Sig	Type	Area	Height	Area %
1	1.633	1	BV	1.24701e6	8.09414e4	100.0000
Totals :				1.24702e6	8.09414e4	

1. Application:

This standard solution is desinged for calibration or recalibration of chromatographic systems for the determination of the specified chemical compounds concerning identity and quantification. The product can also be used as reference material for interlabortory studies to validate analytical procedures.

2. Raw material:

All raw materials used to prepare this standard solution are of the highest purity. After our production process each material is checked by several of the following methods, if applicabel: UV-, IR-Spectroscopy, Elemental analysis, chromotographical properties (GC/FID, GC/ECD, HPLC/DAD, TLC) and physical properties (phase, colour, odor, melting point) and Karl-Fischer for detection of traces of water.

3. Manufacturing:

Prior to the production for each standard solution we calculate the necessary weight of the neat material, compensate the difference of the purity of the compound to 100%. We use an electronic scale capable of weighing to 0,000001 g with a built in automatic calibration function, which is executed minimum once a week. Once a month the balance is calibrated with weights complying with the OIML-IR-20 design requirements and traceable to the national prototype of the Physikalisch-Technische Bundesanstalt, Braunschweig, the German office of weights and measurements. Every year the balance is calibrated by the manufacturer service technician. This company is also certified by the DQS following ISO9001. All steps are documented conform to ISO 9001 requirements. The single components are weighed and filled into volumetric flask (class A glassware) with the exact quantiy of solvent as indicated on the certifcate. Solvents are stored and handled in special rooms, which have the constant ambient temperature required from the manufacturer of the volumetric equipment. The tolerance of the weighing procedure and the dilution error adds to a maximum of +/- 1.0 %.

4. Packaging and Storeage:

The final formulation was packaged in amber OPC ampoules to prevent photodegradation and then sealed by hand. Every reference material is stored under controlled condition. One sample of each lot is kept according GLP rules to bring our staff in a position to check the specific lot even years after the last item was sold.

5. Stability:

In regular intervals each lot is checked for stability. We guarantee the stability of the solution until expiry date given in the Gravimetric Certificate. In case, that the tests show a degradation within the period the customer will be notified by Dr. Ehrenstorfer. We recommend to store the ampules in the dark at 20°C +/- 4°C

6. Gravimetric Certificate:

The documentation gives all the data of the production process with all the information necessary for traceability of each lot. Following GLP rules you are obliged to note the used product, lot number of the product, purity, exact weight/quantity of the product, name of the solvent, lot number of the solvent, exact quantitiy of the solvent, date of production, date of expiry and signature of the person in charge. Copies have to be authorized by stamp, signature of the person in charge according to your quality management handbook and date of authorization.

7. Analytical Quality Control:

The summary of the quality control procedure is documented in the separate Certificate of Analysis. Our company holds the Quality System Certificate DQS-Reg.No.:2874-01 for the standard from the ISO 9001 / EN 29000 series and the scope as specified. The audit performed by the DQS has verified, that our quality system fulfills the requirements of DIN ISO 9001. The Laboratory Dr. Ehrenstorfer-Schäfers is accreditated by DGA as indicated by the Accreditation Certificate DGA-PL-4536.00 based on DIN EN ISO/IEC 17025:2005 for the weighing of amounts of substances for the preparation of standard solutions.