



License ID 1955606  
Client ID 001-NBK-02363  
User Metrohm

Program version viva 3.0 - 69  
2024-02-23 13:28:58 UTC+1

## Method parameters

Method . . . . . AB444 – MVA-24 - Leveler (CVS, RC) - no dilution  
Method saving date . . . . . 2024-02-23 13:28:49 UTC+1  
Method version . . . . . 1  
Method group . . . . . Main group  
Method status . . . . . original  
Method saved by (full name) . . . . . Metrohm International Headquarters  
Method saved by (short name) . . . . . Metrohm

## START

### Main track

#### General

Workplace view

Current view . . . . . on

Track view for live window

Live display 1 . . . . . Main track

Live display 2 . . . . . Main track

Electrode check . . . . . on

#### Application note

In the field Prep cycles enter the number of preparation cycles to prepare the Dosing Unit «5 mL Standard or sample» with solution from the rack.

#### Sample data variables

Name	Type	Assignment	Fixed value	Comment	Monitoring
ID1	Text	ID1		Sample identification 1	off
ID2	Text	ID2		Sample identification 2	off
Prep cycles	Number	ID3		Number of preparation	off
Sample type	Text	Sample type		Sample type	off
Sample position	Number	Sample position		Sample position number	off
Sample amount	Number	Sample amount		Sample amount	off
Sample amount unit	Text	Sample amount unit		Sample amount unit	off

Name . . . . . ID1  
Type . . . . . Text  
Assignment . . . . . on. . . . . ID1  
Fixed value . . . . . off.  
Check at start . . . . . on  
Comment . . . . . Sample identification 1

Name . . . . . ID2  
Type . . . . . Text  
Assignment . . . . . on. . . . . ID2



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Fixed value . . . . . off.  
Check at start . . . . . on  
Comment . . . . . Sample identification 2

Name . . . . . **Sample type**  
Type . . . . . Text  
Assignment . . . . . on. . . . . Sample type  
Fixed value . . . . . off.  
Check at start . . . . . on  
Comment . . . . . Sample type

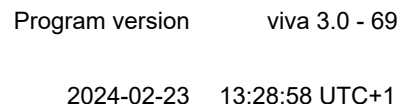
Name . . . . . **Sample amount unit**  
Type . . . . . Text  
Assignment . . . . . on. . . . . Sample amount unit  
Fixed value . . . . . off.  
Check at start . . . . . on  
Comment . . . . . Sample amount unit

Name . . . . . **Prep cycles**  
Type . . . . . Number  
Assignment . . . . . on. . . . . ID3  
Fixed value . . . . . off.  
Check at start . . . . . off  
Comment . . . . . Number of preparation cycles for dosing unit «5 mL  
Standard or sample»

Variable monitoring . . . . . off  
Lower limit . . . . .  
Upper limit . . . . .  
Message . . . . .  
Display message . . . . . on  
Record message . . . . . on  
Message by e-mail . . . . . off  
E-mail template . . . . .  
Subject . . . . . Message from viva - method 'Leveler determination (CVS, RC),  
semiautomated1' - command 'Main track'

Acoustic signal . . . . . off  
Action . . . . . off  
Cancel determination . . . . . on  
Cancel determination and series . . . . . off

Name . . . . . **Sample position**  
Type . . . . . Number  
Assignment . . . . . on. . . . . Sample position  
Fixed value . . . . . off.  
Check at start . . . . . on  
Comment . . . . . Sample position number  
Variable monitoring . . . . . off



Name	Sample amount
Type	Number
Assignment on.	Sample amount
Fixed value off.	
Check at start	on
Comment	Sample amount
Variable monitoring	off
Lower limit	
Upper limit	
Message	
Display message	on
Record message	on
Message by e-mail	off
E-mail template	
Subject	Message from viva - method 'Leveler determination (CVS, RC), semiautomated1' - command 'Main track'
Acoustic signal	off
Action	off
Cancel determination	on
Cancel determination and series	off

AB-444/1: MVA-24 - Determination of leveler by CVS, RC without dilution of the sample

**Prep standard or sample**

## Run electrolyte



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Call text	Track name	Sample type		Condition
Run electrolyte	Electrolyte	off	Sample	off

**CALL Sample or standard?**

Call text	Track name	Sample type		Condition
RC Determination	RC Sample	on	Sample	off
RC Calibration	RC Calibration	on	Standard	off

**CALL Final rinsing**

Call text	Track name	Sample type		Condition
Final rinsing	Rinsing	off	Sample	off

**VA TRACK VA track**

Return immediately . . . . . off

**CVS CVS**

**General/Hardware**

**Device**

Device name . . . . . 884\_1

Device type . . . . . 884 Professional VA

**Sensors/Electrodes**

Working electrode . . . . . RDE

Sensor type . . . . . RDE/SSE

Reference electrode . . . . . Reference electrode

Auxiliary electrode . . . . . Auxiliary electrode

Electrode check . . . . . on

**Stirrer**

Stirring rate . . . . . 2500 min<sup>-1</sup>

Hydrodynamic measurement . . . . . on

**Pretreatment**

Stirring time . . . . . 5.0 s

**Cyclovoltammetric pretreatment**

Start potential . . . . . 0.2 V

Vertex potential . . . . . 1.625 V

Sweep rate . . . . . 1 V/s

Cycles . . . . . off

Duration . . . . . - s

**Potentiostatic pretreatment**

Potential 1 . . . . . off V

Waiting time 1 . . . . . 0.0 s

Potential 2 . . . . . off V

Waiting time 2 . . . . . 0.0 s



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Potential 3 . . . . . off V  
Waiting time 3 . . . . . 0.0 s  
Potential 4 . . . . . off V  
Waiting time 4 . . . . . 0.0 s  
Potential 5 . . . . . off V  
Waiting time 5 . . . . . 0.0 s  
Equilibration time . . . . . 5.0 s

**Sweep**

Start potential . . . . . 1.625 V  
1st vertex potential . . . . . -0.175 V  
2nd vertex potential . . . . . 1.625 V  
Potential step . . . . . 0.006 V  
Potential step time . . . . . 0.060 s  
Sweep rate . . . . . 0.100 V/s  
Preparation cycles . . . . . 1  
Measuring cycles . . . . . 2  
Sweep duration . . . . . 109.08 s

**Post-treatment**

**Cleaning**

Cleaning potential . . . . . off V  
Cleaning time . . . . . 0.0 s

**Standby potential**

Standby potential . . . . . off V

**Potentiostat**

**Current measuring range**

Highest range . . . . . 224 mA  
Lowest range . . . . . 20 µA

**TRACK**

**Electrolyte**

Return immediately . . . . . off  
Delete old data . . . . . off

**CALL**

**Empty vessel electrolyte**

Call text	Track name	Sample type	Condition
Empty measuring vessel	Drain	off Sample	off

**STIR**

**Stirrer ON electrolyte**

**Device**

Device name . . . . . 884\_1  
Device type . . . . . 884 Professional VA

**Stirrer**

Stirring rate . . . . . 2500 min<sup>-1</sup>

**Action**

Switch on . . . . . on



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Switch off . . . . . off  
Duration . . . . . off  
Time . . . . . 300 s

**CALL Add electrolyte**

Call text	Track name	Sample type		Condition
Add VMS	Electrolyte VMS	off	Sample	off
Add suppressor	Electrolyte suppressor	off	Sample	off
Add brightener	Electrolyte brightener	off	Sample	off

**CALL Conditioning electrolyte**

**COND**

Call text . . . . . Conditioning electrolyte  
Track name . . . . . VA track  
Stop criteria  
Evaluation quantity . . . . . on  
Voltammetry command . . . . . CVS  
Substance . . . . . Leveler  
Standard deviation . . . . . 2 %  
Number of runs . . . . . on  
Number of runs . . . . . 20  
Action . . . . . Cancel command  
Run time . . . . . off  
Condition . . . . . off

**CALL Measure electrolyte**

**ELECTROL  
YTE**

Call text . . . . . Measure electrolyte  
Track name . . . . . VA track  
Condition . . . . . off

**TRACK RC Sample**

Return immediately . . . . . off  
Delete old data . . . . . off

**CALL Empty vessel sample**

Call text	Track name	Sample type		Condition
Empty measuring vessel	Drain	off	Sample	off

**SET Reset volume**

**TOTAL  
VOLUME**

Volume . . . . . 0.000 mL

**CALL Add sample**



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Call text	Track name	Sample type		Condition
Dose sample	Dose sample	off	Sample	off

#### STIR

##### Stirrer ON sample

###### Device

Device name . . . . . 884\_1  
Device type . . . . . 884 Professional VA

###### Stirrer

Stirring rate . . . . . 2500 min<sup>-1</sup>

###### Action

Switch on . . . . . on  
Switch off . . . . . off  
Duration . . . . . off  
Time . . . . . 300 s

#### CALL

##### Add electrolyte sample

Call text	Track name	Sample type		Condition
Sample suppressor	Electrolyte suppressor	off	Sample	off
Sample brightener	Electrolyte brightener	off	Sample	off

#### CALL VA

##### Measure sample

Call text . . . . . Measure sample  
Track name . . . . . VA track  
Condition . . . . . off

#### TRACK

##### RC Calibration

Return immediately . . . . . off  
Delete old data . . . . . off

#### LOOP

##### Variations

###### Stop criteria

Max. run number . . . . . on  
Max. run number . . . . . 5  
Maximum run time . . . . . off  
Signal assessment for DT . . . . . off  
Condition . . . . . off

#### STIR

##### Stirrer ON standard

###### Device

Device name . . . . . 884\_1  
Device type . . . . . 884 Professional VA

###### Stirrer

Stirring rate . . . . . 2500 min<sup>-1</sup>



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#### Action

Switch on . . . . . on  
Switch off . . . . . off  
Duration . . . . . off  
Time . . . . . 300 s

#### ADD STD Add standard RC

##### Standard

Solution . . . . . Sample or standard

##### Addition increments

Number . . . . . 1  
Addition volume 1 . . . . . 0.05 mL

##### Addition

Add manually . . . . . off  
Already added . . . . . off  
Add with dosing device . . . . . on  
Dosing rate . . . . . 2.0 mL/min  
Filling rate . . . . . maximum mL/min

#### CALL VA Measure standard

Call text . . . . . Measure standard  
Track name . . . . . VA track  
Condition . . . . . off

#### CALL Prep DU with water

Call text	Track name	Sample type	Condition
Prep DU with water	Rinse DU	off Sample	off

#### TRACK Sample from rack

Return immediately . . . . . off  
Delete old data . . . . . off

#### CALL Empty meas\_vessel start

Call text	Track name	Sample type	Condition
Empty measuring vessel	Drain	off Sample	off

#### MOVE Move to sample position

##### Device

Device name . . . . . 858 Sample Processor  
Device type . . . . . 858.0010 Professional Sample Processor

##### Target

Tower . . . . . 1  
Move . . . . . Sample position

##### Beaker test



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Display message . . . . . on  
Cancel determination . . . . . off  
Cancel determination and series . . . . . off

Parameters

Shift rate . . . . . 20 °/s  
Shift direction . . . . . auto  
Swing rate . . . . . 55 °/s

**LIFT Needle → Work position**

Device

Device name . . . . . 858 Sample Processor  
Device type . . . . . 858.0010 Professional Sample Processor

Target

Tower . . . . . 1  
Lift position . . . . . Work position mm

Parameters

Lift rate . . . . . 25 mm/s

**CALL Prepare DU**

Call text	Track name	Sample type	Condition
Prepare 5mL DU	Prepare 5mL DU off	Sample	off

**TRACK Prepare 5mL DU**

Return immediately . . . . . off  
Delete old data . . . . . off

**LOOP No of preparation cycles**

Stop criteria

Max. run number . . . . . on  
Max. run number . . . . . = Case( 'Prep standard or sample.BSY' = 1  
AND 'SD.Prep cycles' >= 1 ; 'SD.Prep  
cycles' ; 1 ; 1 )  
Maximum run time . . . . . off  
Signal assessment for DT . . . . . off  
Condition . . . . . off

**PREP 5 mL Standard or sample**

Dosing device

Dosing unit . . . . . 5 mL Standard or sample

**PUMP Draining ON**

Device

Device name . . . . . 858 Sample Processor  
Device type . . . . . 858.0010 Professional Sample Processor

Pumps

Tower . . . . . 1  
Pump(s) . . . . . 1



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#### Action

Switch on . . . . . off  
Switch off . . . . . off  
Duration . . . . . on  
Time . . . . . 5 s

#### CALL Rinse measuring vessel

Call text	Track name	Sample type	Condition
Rinse	Rinse	off Sample	off = 'No of preparation cycles.LCO' > 0

#### CALL Rinsing after DU prep

Call text	Track name	Sample type	Condition
Rinsing after DU prep	Rinsing	off Sample	off = 'No of preparation cycles.LCO' > 0

#### TRACK Rinse DU

Return immediately . . . . . off  
Delete old data . . . . . off

#### CALL Empty vessel

Call text	Track name	Sample type	Condition
Empty measuring vessel	Drain	off Sample	off

#### MOVE Move to rinsing vial 28

##### Device

Device name . . . . . 858 Sample Processor  
Device type . . . . . 858.0010 Professional Sample Processor

##### Target

Tower . . . . . 1  
Move . . . . . Rack position  
Number . . . . . 28

##### Beaker test

Display message . . . . . on  
Cancel determination . . . . . off  
Cancel determination and series . . . . . off

##### Parameters

Shift rate . . . . . 20 °/s  
Shift direction . . . . . auto  
Swing rate . . . . . 55 °/s



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**LIFT Lift → Work position**

**Device**

Device name . . . . . 858 Sample Processor

Device type . . . . . 858.0010 Professional Sample Processor

**Target**

Tower . . . . . 1

Lift position . . . . . Work position mm

**Parameters**

Lift rate . . . . . 25 mm/s

**CALL Prepare with H2O**

Call text	Track name	Sample type	Condition
Prepare 5mL DU	Prepare 5mL DU off	Sample	off

**TRACK Dose sample**

Return immediately . . . . . off

Delete old data . . . . . off

**ADD SAMPLE Sample volume**

**Addition**

Add manually . . . . . off

Already added . . . . . on

Add with dosing device . . . . . off

**LQH Dose to port 3**

**General/Hardware**

**Dosing device**

Dosing unit . . . . . 5 mL Standard or sample

**Parameters**

Function . . . . . Dosing

Port . . . . . 3

Volume . . . . . = 'SD.Sample amount' \* 1000 mL

Rate . . . . . maximum mL/min

**TRACK Electrolyte VMS**

Return immediately . . . . . off

Delete old data . . . . . off

**ADD AUX Add VMS 1**

**Auxiliary solution**

Solution . . . . . VMS 1

Volume . . . . . 28.5 mL

Include volume in calculation . . . . . on

**Addition**

Add manually . . . . . off

Already added . . . . . off



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Add with dosing device . . . . . on  
Dosing rate . . . . . maximum mL/min  
Filling rate . . . . . maximum mL/min

**TRACK Electrolyte suppressor**

Return immediately . . . . . off  
Delete old data . . . . . off

**ADD AUX Add suppressor**

Auxiliary solution

Solution . . . . . Suppressor concentrate  
Volume . . . . . 0.5 mL  
Include volume in calculation . . . . . on

Addition

Add manually . . . . . off  
Already added . . . . . off  
Add with dosing device . . . . . on  
Dosing rate . . . . . 2.0 mL/min  
Filling rate . . . . . maximum mL/min

**TRACK Electrolyte brightener**

Return immediately . . . . . off  
Delete old data . . . . . off

**ADD AUX Add brightener**

Auxiliary solution

Solution . . . . . Brightener concentrate  
Volume . . . . . 1 mL  
Include volume in calculation . . . . . on

Addition

Add manually . . . . . off  
Already added . . . . . off  
Add with dosing device . . . . . on  
Dosing rate . . . . . 2.0 mL/min  
Filling rate . . . . . maximum mL/min

**TRACK Rinsing**

Return immediately . . . . . off  
Delete old data . . . . . off

**LOOP Rinsing cycles**

Stop criteria

Max. run number . . . . . on  
Max. run number . . . . . 1  
Maximum run time . . . . . off  
Signal assessment for DT . . . . . off  
Condition . . . . . off

**Stirrer ON**



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**STIR****Device**

Device name . . . . . 884\_1

Device type . . . . . 884 Professional VA

**Stirrer**

Stirring rate . . . . . 2500 min<sup>-1</sup>

**Action**

Switch on . . . . . on

Switch off . . . . . off

Duration . . . . . off

Time . . . . . 300 s

**CALL****CALL Drain**

Call text	Track name	Sample type	Condition
Drain	Drain	off Sample	off

**CALL****CALL Rinse**

Call text	Track name	Sample type	Condition
Rinse	Rinse	off Sample	off

**TRACK****Rinse**

Return immediately . . . . . off

Delete old data . . . . . off

**PUMP****Rinsing time****Device**

Device name . . . . . 858 Sample Processor

Device type . . . . . 858.0010 Professional Sample Processor

**Pumps**

Tower . . . . . 1

Pump(s) . . . . . 2

**Action**

Switch on . . . . . off

Switch off . . . . . off

Duration . . . . . on

Time . . . . . 18 s

**TRACK****Drain**

Return immediately . . . . . off

Delete old data . . . . . off

**PUMP****Draining time****Device**

Device name . . . . . 858 Sample Processor

Device type . . . . . 858.0010 Professional Sample Processor



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Pumps

Tower . . . . . 1  
Pump(s) . . . . . 1

Action

Switch on . . . . . off  
Switch off . . . . . off  
Duration . . . . . on  
Time . . . . . 50 s

**TRACK DU VMS**

Return immediately . . . . . off  
Delete old data . . . . . off

**LQH Fill 50 mL VMS 1**

**General/Hardware**

Dosing device

Dosing unit . . . . . 50 mL VMS 1

**Parameters**

Function . . . . . Fill  
Port . . . . . 2  
Rate . . . . . maximum mL/min

**TRACK DU Suppressor**

Return immediately . . . . . off  
Delete old data . . . . . off

**LQH Fill 2 mL Suppressor**

**General/Hardware**

Dosing device

Dosing unit . . . . . 2 mL Suppressor

**Parameters**

Function . . . . . Fill  
Port . . . . . 2  
Rate . . . . . maximum mL/min

**TRACK DU Brightener**

Return immediately . . . . . off  
Delete old data . . . . . off

**LQH Fill 2 mL Brightener**

**General/Hardware**

Dosing device

Dosing unit . . . . . 2 mL Brightener

**Parameters**

Function . . . . . Fill  
Port . . . . . 2  
Rate . . . . . maximum mL/min

**DU Standard or sample**



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**TRACK** Return immediately . . . . . off

Delete old data . . . . . off

**LQH Fill 5 mL Standard/Sample**  
**General/Hardware**

Dosing device

Dosing unit . . . . . 5 mL Standard or sample

**Parameters**

Function . . . . . Fill

Port . . . . . 2

Rate . . . . . maximum mL/min

**TRACK Shut OFF**

Return immediately . . . . . off

Delete old data . . . . . off

**PUMP Rinse Drain pumps OFF**

Device

Device name . . . . . 858 Sample Processor

Device type . . . . . 858.0010 Professional Sample Processor

Pumps

Tower . . . . . 1

Pump(s) . . . . . 1+2

Action

Switch on . . . . . off

Switch off . . . . . on

Duration . . . . . off

Time . . . . . 8.0 s

**STIR Stirrer OFF**

Device

Device name . . . . . 884\_1

Device type . . . . . 884 Professional VA

Stirrer

Stirring rate . . . . . 2500 min<sup>-1</sup>

Action

Switch on . . . . . off

Switch off . . . . . on

Duration . . . . . off

Time . . . . . 300 s

**CALL Condition shift needle**



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Call text	Track name	Sample type	Condition
Condition shift needle	Shift needle	off Sample	on = 'SD.Sample position' <> 'SD.NEXT.Sample position'

TRACK	Shift needle
	Return immediately . . . . . off
	Delete old data . . . . . off
LIFT	Needle → Shift position
	Device
	Device name . . . . . 858 Sample Processor
	Device type . . . . . 858.0010 Professional Sample Processor
	Target
	Tower . . . . . 1
	Lift position . . . . . Shift position mm
	Parameters
	Lift rate . . . . . 25 mm/s
SERIES START	Series start track
RACK	RACK INIT
	Device
	Device name . . . . . 858 Sample Processor
	Device type . . . . . 858.0010 Professional Sample Processor
	Rack test . . . . . on
	Test rack . . . . . 6.2041.450
SERIES END	Series end track
CALL	Rinse DU 5 mL Standard/Sa
	Call text                      Track name                      Sample type                      Condition
	Rinse DU                      Rinse DU                      off   Sample                      off
CALL	Series end shut OFF
	Call text                      Track name                      Sample type                      Condition
	Shut OFF                      Shut OFF                      off   Sample                      off
CALL	Series end shift needle



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		Call text	Track name	Sample type	Condition
		Shift needle	Shift needle	off Sample	off
EXIT	Exit track				
CALL	Fill Dosing Units				
		Call text	Track name	Sample type	Condition
		Fill DU Standard or sample	DU Standard or sample	off Sample	off
		Fill DU VMS	DU VMS	off Sample	off
		Fill DU Suppressor	DU Suppressor	off Sample	off
		Fill DU Brightener	DU Brightener	off Sample	off
CALL	Exit shut off				
		Call text	Track name	Sample type	Condition
		Exit shut off	Shut OFF	off Sample	off
ERROR	Error track				
CALL	Error shut off				
		Call text	Track name	Sample type	Condition
		Error shut off	Shut OFF	off Sample	off

## Evaluation parameters

### General

#### CVS

#### Data processing

Smoothing . . . . . 1  
Reversed peaks . . . . . off

#### Curve evaluation

Fixed point evaluation . . . . . off

### Substances

#### CVS

#### Substances - Recognition



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Substance	Active	Characteristic potential	Tolerance	Min. width	Max. width	Min. measured quantity	Sweep direction
Leveler	on	0.3 V	0.2 V	0.01 V	1 V	200 pA	anodic

#### CVS

##### Substances - Baseline

Substance	Baseline type	Start base point	End base point
Leveler	Horizontal	0.8 V	-0.05 V

#### Standards

##### Standards

Name Sample or standard

Leveler 1000 mL/L

#### Calibration

##### General

Calibration method . . . . . RC  
Blank value correction with evaluation . . . . . off  
quantity

#### CVS

##### Calibration curves

Substance	Evaluation quantity	Curve type for standard	Weighting
Leveler	Area	Linear interpolation	on
Begin of evaluation standard			
1.1			

#### Results

##### Substance concentration in the sample

##### CVS

Substance	Decimal places	Assignment
Leveler	2	RS01

#### Results

##### Additional results



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Result	Places	Prefix	Unit
Peak potential	3		V
Height	2	#	A
RSD of the heights of all replications	1		%
Measured value	2	#	A
RSD of the measured values of all replications	1		%
Area	2	#	C
RSD of the areas of all replications	1		%
Start base point	3		
End base point	3		
Standardized area	3		
Standardized height	3		
Standardized measured value	3		
Total volume	3	#	L
Zero-order coefficient	3		
First-order coefficient	3		
Second-order coefficient	3		
Fourth-order coefficient	3		
Coefficient of determination	5		
Substance concentration in measuring vessel	2	#	
RSD of the substance concentration in measuring vessel	1		%
Amount of substance	2	#	
RSD of the substance concentration in the sample	1		%
Effective addition volume of the standard solution for the evaluation ratio	2	#	L
RSD of the effective addition volume of the standard solution for the evaluation ratio	1		%
Calibration factor DT	2	#	
RSD of the calibration factor DT	1		%
Effective addition volume of the sample solution for the evaluation ratio	2	#	L
RSD of the effective addition volume of the sample solution for the evaluation ratio	1		%

#### Database

Name database . . . . . viva