



AVAILABILITY - PRICES

valid from January 2025

Production of Reference Solutions
for the Metrological Quantity

ELECTROLYTIC CONDUCTIVITY

We offer Reference Solutions for electrolytic conductivity in the measuring range from 1.3 $\mu\text{S}/\text{cm}$ to 150 mS/cm .

Our Standard Reference Solutions (solutions of potassium chloride) for measurement of electrolytic conductivity, traceable to DFM, PTB and NIST, with **DAkKS Calibration Certificate**.

Reference Solution for electrolytic conductivity (at 25 °C)		Order no.	Price for 125 ml in EURO	Price for 250 ml in EURO	Price for 500 ml in EURO
in $\mu\text{S}/\text{cm}$	in mol/l				
1.3	-	EC / 12 / 1,3	52.10	98.40	-
2	-	EC / 12 / 2	52.10	98.40	-
5	-	EC / 12 / 5	52.10	98.40	-
10	-	EC / 12 / 10	52.10	98.40	-
15	-	EC / 12 / 15	52.10	98.40	-
20	-	EC / 12 / 20	52.10	98.40	-
25	-	EC / 12 / 25	52.10	98.40	-
30	-	EC / 12 / 30	28.70	57.90	99.20
50	-	EC / 12 / 50	28.70	57.90	99.20
84	-	EC / 12 / 84	28.70	57.90	99.20
100	-	EC / 12 / 100	28.70	57.90	99.20
147	0.001	EC / 12 / 147	28.70	57.90	99.20
200	-	EC / 12 / 200	28.70	57.90	99.20
500	-	EC / 12 / 500	28.70	57.90	99.20
1000	-	EC / 12 / 1000	28.70	57.90	99.20
1413	0.01	EC / 12 / 1413	28.70	57.90	99.20

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ZMK & ANALYTIK GmbH
Ortsteil Wolfen
P-D ChemiePark Bitterfeld-Wolfen
Areal A, Filmstraße Nr. 7
06766 Bitterfeld-Wolfen
Telefon: 03494/6973-0
Telefax: 03494/6973-34
E-Mail: info@zmk-wolfen.de

Geschäftsführung /
Board of Management:
Dr. Barbara Werner
Dr.-Ing. Olaf Schnelle-Werner
Dr. Diana Jehnert

Sitz / Domicile: Bitterfeld-Wolfen
Handelsregister / Register Court:
Stendal, Nr./No. HRB – 13042

Steuernr.: 116/105/43229
Ust-IdNr.: DE 167227603

Volksbank Dessau-Anhalt eG
Kto.-Nr.: 112 2550
BLZ: 800 935 74
SWIFT (BIC): GENODEF1DS1
IBAN: DE19 8009 3574 0001 1225 50

Deutsche Bank AG
Kto.-Nr.: 386 7595
BLZ: 860 700 24
SWIFT (BIC): DEUTDEDB864
IBAN: DE40 8607 0024 0386 7595 00



DIN EN ISO 9001
Reg.-Nr.: 054774 QM

Reference Solution for electrolytic conductivity (at 25 °C)		Order no.	Price for 100 ml in EURO	Price for 250 ml in EURO	Price for 500 ml in EURO
in mS/cm	in mol/l				
2.77	0.02	EC / 12 / 2,77	28.70	57.90	99.20
3.5	-	EC / 12 / 3,5	28.70	57.90	99.20
5	-	EC / 12 / 5,0	28.70	57.90	99.20
12.88	0.1	EC / 12 / 12,88	28.70	57.90	99.20
25	0.2	EC / 12 / 25,0	28.70	57.90	99.20
50	-	EC / 12 / 50,0	28.70	57.90	99.20
100	-	EC / 12 / 100,0	28.70	57.90	99.20
111.8	1	EC / 12 / 111,8	28.70	57.90	99.20
150	-	EC / 12 / 150,0	28.70	57.90	99.20

On request, other reference solutions of electrolytic conductivity are available with DAkkS Calibration Certificate in the range from 1.3 µS/cm to 150 mS/cm. The delivery time is about 4 weeks.

For these reference solutions there is a surcharge of 15.60 €, this applies to the delivery quantities of 125 ml, 500 ml and 250.

On customer request we offer the calibration certificates also electronically, they will be sent by e-mail.

Per special temperature there is a surcharge of 43.80 EURO.

The prices indicated in the table are net prices and include the DAkkS Calibration Certificate and packaging.

PRODUCT INFORMATION

Reference Solutions for Electrolytic Conductivity

Calibration laboratory for length, electrical, mechanical, thermodynamic
and analytical measurands

DAkkS-Registration Number: **D-K-15186-01-00**

The salt content of aqueous salt solutions may be determined from their **specific electrolytic conductivity**. The measurement of electrolytic conductivity is therefore applied for the determination and monitoring of salt concentration in aqueous solutions of technical and biological systems.

The measurement of electrolytic conductivity of water and solutions is based on the measurement of the resistance of the solution between the electrodes of a measuring cell.

The calibration of conductivity measuring devices is carried out by determination of the cell constant with traceable reference solutions of electrolytic conductivity.

Our reference solutions based on solutions of Potassium Chloride and are traceable to the national and international standards of National Metrology Institutes.

Our certified reference solutions for electrolytic conductivity at 25°C are available in the following ranges with the given expanded measuring uncertainty (accredited measuring uncertainty; $k = 2$):

1.3 to 2 $\mu\text{S}/\text{cm}$	$U = 0.8\% + 0.1\% \text{ transport}$
> 2 to 15 $\mu\text{S}/\text{cm}$	$U = 0.5\% + 0.1\% \text{ transport}$
> 15 to 100 $\mu\text{S}/\text{cm}$	$U = 0.3\% + 0.1\% \text{ transport}$
> 100 $\mu\text{S}/\text{cm}$ to 150 mS/cm	$U = 0.1\% + 0.1\% \text{ transport}$

Additional information:

The long-term stability of reference solutions is influenced by the kind of handling and storage.

That means that the unopened bottles must be stored preferably in the dark and at room temperature.

After opening of the bottle, the reference solutions must be used immediately and only once.

Reference solutions for electrolytic conductivity (1.3 $\mu\text{S}/\text{cm}$ to 1000 $\mu\text{S}/\text{cm}$) are stable for 3 months at unopened bottle.

Reference solutions for electrolytic conductivity (1 mS/cm to 150 mS/cm) are stable for 2 years at unopened bottle.