

Special Solution for...

...Food Analysis

Luff-Schoorl's solution

for sugar determination
 R: 52/53-36 · S: 26-60

X874.1 1 l glass 24,55 €

Fehling's solution I

for sugar determination
 Cupric sulphate solution
 UN No. 3082
 ADR 9 III · WGK 2
 R: 51/53 · S: 60

N055.1 1 l glass 23,85 €

Fehling's solution II

for sugar determination
 alkaline potassium sodium tartrate solution
 UN No. 3266
 ADR 8 II · WGK 1
 R: 35 · S: 26-36/37/39-45

N056.1 1 l glass 33,65 €

Samples containing fat and proteins should be cleared using Carrez reagents:

- Add sample to 60 ml water
- Subsequently add, while mixing after each step:
 - a) 5 ml Carrez I solution (3.6 g potassium hexa-cyanoferrate (II), Art. No. P745 add 100 ml)
 - b) 5 ml Carrez II solution (7.2 g zinc-sulphate-hepta-hydrate, Art. No. K301 add 100 ml)
- Adjust pH to 7.5 - 8.5 by adding NaOH (0.1 M)
- Fill volumetric flask up to mark, mix, and filter

...Environmental Analysis

Determination of chemical oxygen demand (COD)

Silver sulphate solution

10 g/l in sulphuric acid, for determination of COD according to DIN 38409 H41-1
 UN No. 3264
 ADR 8 II
 R: 35 · S: 26-30-36/37/39-45

X870.1 1 l plastic 36,50 €

Potassium dichromate solution

0.02 mol/l - 0.12 N volumetric solution for determination of COD
 DIN 38409 part H41 and H43 comply WGK 2
 R: 45-46-60-61-20-42/43-52/53 · S: 53-23-24/25-29/56-36/37/39-45

P720.1 1 l plastic 18,85 €

Mercuric(II) sulphate solution 80 g/l in sulphuric acid potassium dichromate solution 0.02 mol/l volumetric solution

For determination of COD acc. to DIN 38409 H41-1.
 UN No. 3289
 ADR 6.1 (8) II
 R: 45-46-60-61-26/27/28-33-35-42/43-51/53 · S: 53-23-24/25-36/37/39-57-60

X871.1 1 l plastic 34,25 €

Potassium dichromate solution

1/24 mol/l - 0.25 N volumetric solution for determination of COD
 bp ~100 °C
 mp ~0 °C
 WGK 2
 R: 49-46-20-43-52/53 · S: 53-24-36/37-45

P721.1 1 l glass 22,90 €

Ferriin indicator solution

for sewage analysis
 For determination of COD acc. to DIN 38409 part H41 and H43.
 S: 7-24/25-36/37/39-49-56

T131.1 100 ml glass 24,40 €



Volumetric Solutions



- ✓ Volumetric solutions, ready-to-use
- ✓ Special solutions for environmental and food analysis

Carl Roth GmbH + Co. KG

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IKK 02/2010

Volumetric Solutions, ready-to-use

Ready-to-use volumetric standard solutions from **ROTH** are prepared and tested with the greatest of care in compliance with modern production and analysis techniques.



They stand for:

- ✓ A wide range with different concentrations
- ✓ Ready-to-use solutions - sources of errors e.g. dilution error are eliminated
- ✓ High accuracy for precise analyses (Titer deviation max. +/-0.2 %)
- ✓ Application of NIST - (National Institute of Standards and Technology) certified primary titer substances for checking solutions
- ✓ Direct connection to standard titrators possible

Product	Concentration		Art No.	Pack Qty.	Price
Ammonium thiocyanate solution	0.1 mol/l - 0.1 N		P718.1	1l	15,95 €
Barium hydroxide solution	0.05 mol/l - 0.1 N		N054.1	1l	26,80 €
Ceric(IV) sulphate solution	0.1 mol/l - 0.1 N	☒ R: 36/38 · S: 26-45	P719.1	1l	50,10 €
EDTA disodium salt solution	0.01 mol/l - 0.01 N		CN34.1	1l	18,45 €
Titration complex III-solution	0.1 mol/l - 0.1 N		K714.1	1l	16,95 €
			K714.2	5l	50,35 €
EDTA disodium salt solution A	0.1 mol/l - 0.1 N		T136.1	1l	22,50 €
EDTA disodium salt solution B	0.01783 mol/l - 0.01783 N		T137.1	1l	17,80 €
Hydrochloric acid	0.01 mol/l - 0.01 N		N075.1	1l	14,20 €
	0.1 mol/l - 0.1 N		K024.1	1l	14,60 €
			K024.2	5l	43,85 €
	0.5 mol/l - 0.5 N		P708.1	1l	14,65 €
			P708.2	5l	43,65 €
	1 mol/l - 1 N		K025.1	1l	14,60 €
			K025.2	5l	43,70 €
	2 mol/l - 2 N	☒ R: 36/37/38 · S: 26	T134.1	1l	14,70 €
		T134.2	5l	41,95 €	
4 mol/l - 4 N	☒ R: 36/37/38 · S: 26	N076.1	1l	23,15 €	
		0281.1	1l	23,10 €	
	☒ R: 36/37/38 · S: 26				
Iodine solution	0.05 mol J ₂ /l - 0.1 N		K016.1	1l	23,90 €
			K016.2	2.5l	46,05 €
	0.5 mol J ₂ /l - 1 N		X868.1	1l	73,35 €
Nitric acid	1 mol/l - 1 N	☒ R: 34 · S: 23-26-36-45	N070.1	1l	16,50 €
Oxalic acid solution	0.05 mol/l - 0.1 N		CN35.1	1l	17,95 €
Perchloric acid	0.1 mol/l - 0.1 N	☒ R: 10-35 · S: 26-36/37/39-45	K023.1	1l	60,95 €
Potassium chloride solution	3 mol/l - 3 N		T138.1	0.25l	15,00 €
Potassium dichromate solution	1/60 mol/l - 0.1 N	☒ R: 45-46-20-42/43-52/53 · S: 53-23-24-36/37/39-45-61	P722.1	1l	20,25 €
Potassium hydroxide solution	0.1 mol/l - 0.1 N	☒ R: 36/38 · S: 26	K018.1	1l	15,80 €
			K018.2	5l	45,00 €
	0.5 mol/l - 0.5 N	☒ R: 34 · S: 26-36/37/39-45	N071.1	1l	16,65 €
	1 mol/l - 1 N	☒ R: 35 · S: 26-36/37/39-45	K017.1	1l	17,75 €
			K017.2	5l	44,65 €
Potassium hydroxide solution in ethanol	0.1 mol/l - 0.1 N	☒ R: 11-36/38 · S: 7/9-16-26	P706.1	1l	29,60 €
	0.5 mol/l - 0.5 N	☒ R: 11-34 · S: 7/9-26-36/37/39-45	P707.1	1l	44,10 €
Potassium permanganate solution	0.02 mol/l - 0.1 N	R: 52/53 · S: 61	K019.1	1l	18,10 €
Sodium hydroxide solution	0.01 mol/l - 0.01 N		N073.1	1l	14,85 €
	0.1 mol/l - 0.1 N	☒ S: 24-25-36/37/39-48	K020.1	1l	14,65 €
			K020.2	5l	43,50 €
Sodium hydroxide solution	0.2 mol/l - 0.2 N	☒ R: 36/38 · S: 26	N074.1	1l	14,60 €
	0.25 mol/l - 0.25 N	☒ R: 36/38 · S: 26	P711.1	1l	14,90 €
	0.5 mol/l - 0.5 N	☒ R: 34 · S: 26-36/37/39-45	P710.1	1l	14,65 €
			P710.2	5l	43,90 €
	1 mol/l - 1 N	☒ R: 34 · S: 26-36/37/39-45	K021.1	1l	14,70 €
			K021.2	5l	43,65 €
	2 mol/l - 2 N	☒ R: 35 · S: 26-36/37/39-45	T135.1	1l	14,70 €
		T135.2	5l	46,25 €	
Sodium thiosulfate solution	0.01 mol/l - 0.01 N		X869.1	1l	16,75 €
	0.1 mol/l - 0.1 N		K022.1	1l	14,00 €
			K022.2	5l	37,30 €
Sulphuric acid	0.01 mol/l - 0.02 N		X872.1	1l	18,30 €
	0.05 mol/l - 0.1 N		K026.1	1l	13,40 €
			K026.2	5l	41,25 €
	0.1 mol/l - 0.2 N		N072.1	1l	14,25 €
	0.25 mol/l - 0.5 N		P709.1	1l	14,80 €
	0.5 mol/l - 1 N		K027.1	1l	14,60 €
			K027.2	5l	41,40 €
Silver nitrate solution	1 mol/l - 2 N	☒ R: 36/38 · S: 26-37-45	X873.1	1l	18,40 €
	0.1 mol/l - 0.1 N	R: 52/53 · S: 61	K713.2	250 ml	29,70 €
			K713.1	1l	54,45 €
			K713.3	2.5 l	93,35 €
	5 %	☒ R: 34-50/53 · S: 26-45-60-61	N053.1	1l	26,05 €
Wijs-solution	0.1 mol JCl/l - 0.2 N	☒ R: 10-35 · S: 23-26-36/37/39-45	CN36.1	1l	51,80 €
Zinc sulphate solution	0.1 mol/l - 0.1 N	☒ R: 51/53 · S: 57-60	P723.1	1l	19,55 €