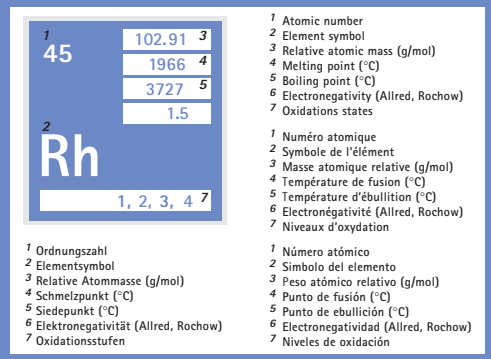
Periodensystem der Elemente
Periodic table of the elements
Tableau périodique des éléments
Tabla periódica de los elementos



Metalle, metals, métaux, metales

Nichtmetalle, nonmetals, non-métaux, metaloides

Übergangsmetalle, transition metals, métaux de transition, metales de transición

Elemente der f-Reihe, elements of the f-series, éléments de la série f, no metales de la serie f

*stabilstes Isotop, most stable isotope, isotope le plus stable, isótopo más estable

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H 1.0079 −259.14 −252.87 2.2 −1,1																	2 He 4.0026 <−272.2 −268.93
2	3 Li 6.941 180.54 1347 1.0 1	4 Be 9.0122 1278 2970 1.5 2											5 B 10.811 2079 2550 2.0 3	6 C 12.011 3367 4827 2.5 −4, 2, 4	7 N 14.007 −209.86 −195.8 3.1 −3, 2, 3, 4, 5	8 O 15.999 −218.4 −182.96 3.5 −2, −1	9 F 18.998 −219.62 −188.14 4.1 −1	10 Ne 20.18 −248.67 −246.05
3	11 Na 22.990 97.81 882.9 1.0 1	12 Mg 24.305 648.8 1090 1.2 2											13 Al 26.982 660.37 2467 1.5 3	14 Si 28.086 1410 2355 1.7 4	15 P 30.974 44.1 280 2.1 −3, 3, 5	16 S 32.066 112.8 444.67 2.4 −2, 2, 4, 6	17 Cl 35.453 −100.98 −34.6 2.8 −1, 1, 3, 5, 7	18 Ar 39.948 −189.2 −185.7
4	19 K 39.098 63.65 774 0.9 1	20 Ca 40.078 839 1484 1.0 2	21 Sc 44.956 1541 2831 1.2 3	22 Ti 47.88 1660 3287 1.3 3, 4	23 V 50.942 1890 3380 1.5 2, 3, 4, 5	24 Cr 51.996 1857 2672 1.6 2, 3, 6	25 Mn 54.938 1244 1962 1.6 2, 3, 4, 6, 7	26 Fe 55.845 1535 2750 1.6 2, 3, 6	27 Co 58.933 1495 2870 1.7 2, 3	28 Ni 58.693 1453 2732 1.8 2, 3	29 Cu 63.546 1083 2567 1.8 1, 2	30 Zn 65.39 419.6 907 1.7 2	31 Ga 69.723 29.78 2403 1.8 3	32 Ge 72.61 937.4 2830 2.0 4	33 As 74.922 817 613 2.2 −3, 3, 5	34 Se 78.96 217 684.9 2.5 −2, 4, 6	35 Br 79.904 −7.2 58.78 2.7 −1, 1, 3, 5, 7	36 Kr 83.80 −156.6 −152.3 2, 4
5	37 Rb 85.468 38.89 688 0.9 1	38 Sr 87.62 769 1384 1.0 2	39 Y 88.906 1522 3338 1.1 3	40 Zr 91.224 1852 4377 1.2 4	41 Nb 92.906 2468 4742 1.2 3, 5	42 Mo 95.94 2617 4612 1.3 2, 3, 4, 5, 6	43 Tc *98.906 2172 4877 1.4 7	44 Ru 101.07 2310 3900 1.4 3, 4, 8	45 Rh 102.91 1966 3727 1.5 1, 2, 3, 4	46 Pd 106.42 1552 3140 1.4 2, 4	47 Ag 107.87 961.9 2212 1.4 1, 2	48 Cd 112.41 320.9 765 1.5 2	49 In 114.82 156.6 2080 1.5 3	50 Sn 118.71 232.0 2270 1.7 2, 4	51 Sb 121.76 630.7 1750 1.8 −3, 3, 5	52 Te 127.60 449.5 990 2.0 −2, 4, 6	53 I 126.90 113.5 184.4 2.2 −1, 1, 3, 5, 7	54 Xe 131.29 −111.9 −107.1 2, 4, 6
6	55 Cs 132.91 28.40 678.4 0.9 1	56 Ba 137.33 725 1640 1.0 2	57–71 Lanthaniden Lanthanides Lanthanide Lantánidos	72 Hf 178.49 2227 4602 1.2 4	73 Ta 180.95 2996 5425 1.3 5	74 W 183.84 3410 5660 1.4 2, 3, 4, 5, 6	75 Re 186.21 3180 5627 1.5 2, 4, 7	76 Os 190.23 3045 5027 1.5 2, 3, 4, 6, 8	77 Ir 192.22 2410 4130 1.6 1, 2, 3, 4, 6	78 Pt 195.08 1772 3827 1.4 2, 4	79 Au 196.97 1064 2807 1.4 1, 3	80 Hg 200.59 −38.84 356.6 1.5 1, 2	81 Tl 204.38 303.5 1457 1.4 1, 3	82 Pb 207.2 327.5 1740 1.6 2, 4	83 Bi 208.98 271.3 1560 1.7 3, 5	84 Po *209.98 254 962 1.8 2, 4, 6	85 At *209.99 302 337 2.0 −1, 1, 3, 5, 7	86 Rn *222.02 −71 −61.8 2
7	87 Fr *223.02 27 677 0.9 1	88 Ra *226.03 700 1140 1.0 2	89–103 Actiniden Actinides Actinides Actínidos	104 Rf *261.11	105 Db *262.11	106 Sg *266.12	107 Bh *264.12	108 Hs *269.13	109 Mt *268.14	110 Ds *271.15	111 Rg *272.15	112 Uub 277						

	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
Lanthaniden Lanthanides Lanthanide Lantánidos	La 138.91 921 3457 1.1 3	Ce 140.12 799 3426 1.1 3, 4	Pr 140.91 931 3512 1.1 3, 4	Nd 144.24 1021 3068 1.1 3	Pm *146.92 1168 2460 1.1 3	Sm 150.36 1077 1791 1.1 2, 3	Eu 151.96 822 1597 1.0 2, 3	Gd 157.25 1313 3266 1.1 3	Tb 158.93 1356 3123 1.1 3, 4	Dy 162.50 1412 2562 1.1 3	Ho 164.93 1474 2695 1.1 3	Er 167.26 1497 2900 1.1 3	Tm 168.93 1545 1947 1.1 2, 3	Yb 173.04 819 1194 1.1 2, 3	Lu 174.97 1663 3395 1.1 3
	89	**90**	**91**	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100**	**101**	**102**	**103**
Actiniden Actinides Actinides Actínidos	Ac *227.03 1050 3200 1.0 3	Th *232.04 1750 4790 1.1 4	Pa *231.04 1600 1.1 4, 5	U *238.03 1132 3818 1.2 3, 4, 5, 6	Np *237.05 640 3902 1.2 3, 4, 5, 6	Pu *244.06 641 3232 1.2 3, 4, 5, 6	Am *243.06 994 2607 ~1.2 3, 4, 5, 6	Cm *247.07 1340 ~1.2 3, 4	Bk *247.07 ~1.2 3, 4	Cf *251.08 ~1.2 3, 4	Es *252.08 ~1.2 3	Fm *257.18 ~1.2 3	Md *258.10 ~1.2 3	No *259.10 2, 3	Lr *262.11 3

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Stand 07/2005 W.280002

Inorganic salts

Designation	Chemical formula	Package size	Order-No.
Aluminium nitrate nonahydrate GR for Analysis	$Al(NO_3) \cdot 9\ H_2O$	500 g	1.01063.0500
Antimon(III)-chloride GR for analysis	$SbCl_3$	250 g	1.07838.0250
Arsenic lumps GR for analysis	As	25 g	1.00115.0025
Barium chloride dihydrate GR for analysis ACS, ISO	$BaCl_2 \cdot 2\ H_2O$	500 g	1.01719.0500
Bismuth(III)-nitrate basic GR for analysis	$Bi_5O(OH)_9(NO_3)_4$	100 g	1.01878.0100
di-Boron trioxide for silicate analysis	B_2O_3	250 g	1.00163.0250
Bromine GR for analysis ISO	Br_2	250 ml	1.01948.0250
Cadmium nitrate tetrahydrate GR for analysis	$Cd(NO_3)_2 \cdot 4H_2O$	250 g	1.02019.0250
Calcium hydroxide GR for analysis	$Ca(OH)_2$	500 g	1.02047.0500
Cerium(IV) sulfate tetrahydrate GR for analysis	$Ce(SO_4)_2 \cdot 4H_2O$	100 g	1.02274.0100
Cesium chloride GR for analysis	CsCl	25 g	1.02038.0025
Chromium(VI)-oxide GR for analysis	CrO_3	250 g	1.00229.0250
Cobalt(II) nitrate hexahydrate GR for analysis	$Co(NO_3)_2 \cdot 6H_2O$	100 g	1.02536.0100
Copper(II) sulfate pentahydrate GR for analysis ACS, ISO	$CuSO_4 \cdot 5H_2O$	250 g	1.02790.0250
Iron(II)-chloride GR for analysis	$FeCl_2 \cdot 4H_2O$	500 g	1.03861.0500
Gallium(III) nitrate octahydrate 99+	$Ga(NO_3)_3 \cdot 8H_2O$	5 g	1.12171.0005
Germanium(IV) oxide 99+	GeO_2	5 g	1.12177.0005
Gold powder 99+	Au	5 g	1.19212.0002
Holmium(III) oxide LAB	Ho_2O_3	5 g	1.12469.0005
di-Iodine pentoxide GR for analysis granular 0.5–2.5 mm	I_2O_5	100 g	1.00358.0100
Indium(III) sulfate LAB	$In_2(SO_4)_3 \cdot xH_2O$	25 g	1.12202.0025
Iridium(III) chloride 99+	$IrCl_3$	5 g	1.19216.0005
Lanthanum nitrate hexahydrate GR for analysis	$La(NO_3)_3 \cdot 6H_2O$	100 g	1.05326.0100
Lead (II) carbonate GR for analysis ACS	$PbCO_3$	250 g	1.07381.0250
Lithium chloride GR for analysis	LiCl	100 g	1.05679.0100
Magnesium chloride hexahydrate GR for analysis ACS, ISO	$MgCl_2 \cdot 6H_2O$	250 g	1.05833.0250
Manganese(II) chloride tetrahydrate GR for analysis ACS	$MnCl_2 \cdot 4H_2O$	100 g	1.05927.0100
Mercury(II) sulfate GR for analysis	$HgSO_4$	50 g	1.04480.0050
Molybdenum(VI) oxide GR for analysis	MoO_3	100 g	1.00403.0100
Nickel chloride hexahydrate GR for analysis	$NiCl_2 \cdot 6H_2O$	250 g	1.06717.0250
Niobium(V) oxide 99+	Nb_2O_5	100 g	1.06868.0100
Osmium powder 99+	Os	1 g	1.19222.0001
Palladium(II) sulfate dihydrate 99+	$PdSO_4 \cdot 2H_2O$	1 g	1.19226.0001
di-Phosphorus pentoxide GR	P_2O_5	100 g	1.00570.0100
Platin	Pt	1 g	1.19232.0001
Potassium carbonate GR for analysis ACS, ISO	K_2CO_3	500 g	1.04928.0500
Rhodium	Rh	1 g	1.19240.0001
Rubidium chloride GR for analysis	RbCl	25 g	1.07615.0025
Ruthenium(III) chloride hydrate	$RuCl_3 \cdot xH_2O$	5 g	1.19247.0005
Samarium	Sm_2O_3	10 g	1.12321.0100
Scanium dioxide	Sc_2O_3	1 g	1.13139.0001
Selenium black 99+	Se	50 g	1.07714.0050
Silicium dioxide	SiO_2	500 g	1.13126.0500
Silver nitrate GR for analysis	$AgNO_3$	25 g	1.01512.0025
Sodium chloride GR for analysis ACS, ISO	NaCl	500 g	1.06404.0500
Strontium nitrate GR for analysis	$Sr(NO_3)_2$	250 g	1.07872.0250
Sulfur extra pure Ph Eur, BP	S	2,5 kg	1.07983.2500
Tantalum(V) chloride 99+	$TaCl_5$	100 g	1.12352.0100
Tellur dioxide	TeO_2	25 g	1.12356.0025
Terbium oxide	TbOx	1 g	1.12509.0001
Thallium(I) nitrate GR for analysis	$TlNO_3$	50 g	1.08144.0050
Tin(II) chloride dihydrate GR for analysis ACS	$SnCl_2 \cdot 2H_2O$	100 g	1.07814.0100
Titanium(IV) oxide LAB	TiO_2	500 g	1.00808.0500
Tungsten	W	100 g	1.12406.0100
Vanadium(V) oxide extra pure	V_2O_5	250 g	1.00824.0250
Yttrium(III) nitrate hexahydrate 99+	$Y(NO_3)_3 \cdot 6H_2O$	25 g	1.12516.0025
Zinc chloride GR for analysis ACS, ISO	$ZnCl_2$	250 g	1.08816.0250
Zirconium(IV) oxide chloride octahydrate GR for analysis	$ZrOCl_2 \cdot 8H_2O$	100 g	1.08917.0100

Metal indicators

Designation	For complexometric determination of	Indicator solution (preparation)	Package size	Order No.
Alizarin-3-methylamine-N, N-diacetic acid dihydrate	Ba,Cd, Co, In, Hg, Pb, Sn, Zn	0.5% in water or ammonium acetate solution 1 mol/l	1 g	1.01010.0001
Alizarin red S (C. I. 58005)	Al, lanthanides, Mo, Sc, Th, Y, Zr	0.05–0.2% in water	25 g	1.06279.0025
Arsenazo III	Lanthanides, Th, Y	0.1% in water	5 g	1.10107.0005
Aurin tricarboxylic acid ammonium salt (C. I. 43810)	Al, Cu, Fe, Mg	0.2% in water	25 g	1.00128.0025
Calcein	Ba, Ca, Cr, Cu, Mg, Sr	1:100 with KCl or KNO_3	5 g	1.02315.0005
Calcon® (C. I. 15705)	Ca, Cd, Mg, Zn	0.5% in ethanol (96%) or methanol	50 g	1.04594.0050
Calconcarboxylic acid	Ca	0.4% in methanol or 1:100 with Na_2SO_4 resp. NaCl	5 g	1.04595.0005
Carminic acid (C. I. 75470)	Tl, Zn	0.3% in water	5 g	1.00211.0005
Chromazurol S (C. I. 43825)	Al, Ca, Cu, Fe, lanthanides, Mg, Ni, Th, U, V, Y, Zr	0.1–0.4% in water	25 g	1.02477.0025
1,8-Dihydroxy-2-(4-sulfophenylazo) naphthalene-3,6-disulfonic acid trisodium salt	Th, Zr	0.02–0.4% in water	25 g	1.07998.0025
3,3'-Dimethylnaphthidine	Cd, Zn	1% in glacial acetic acid	1 g	1.03122.0001
1,5-Diphenylcarbazide	Hg, Ni, Pb, V	1% + 0.2% o-phenanthroline in ethanol (96%)	25 g	1.03091.0025
1,5-Diphenylcarbazone		0.2% in ethanol (96%)	5 g	1.03087.0005
Dithizone	Ag, Au, Bi, Cd, Co, Cu, Fe, Hg, In, Mn, Ni, Pb, Sn, Zn	0.025–0.05% in ethanol (96%) or methanol	5 g	1.03092.0005
Eriochrome black T (C. I. 14645)	Ba, Ca, Cd, Hg, In, lanthanides, Mg, Mn, Pb, Zn, Zr	0.05–0.5 in ethanol (96%) or 1:100 with NaCl or 1:200 with saccharose	25 g	1.03170.0025
Eriochrome blue SE (C. I. 16680)	Ca, Cd, Mg, Mn, Ni, Pb, Zn	0.1–0.4% in methanol (25%) or 1:200 with KCl	5 g	1.03340.0005
Eriochrome blue-black B (C. I. 14640)	Ca, Cd, Mg, U, Zn, Zr	0.5% in water or ethanol (96%) or alkaline 2-propanol - solution (33%)	25 g	1.03168.0025
Eriochrome cyanine R (C. I. 43820)	Al, Ca, Cu, Fe, Mg, Th, Zr	0.1–0.4% in water or 0.1% in ethanol	25 g	1.03164.0025
Hydroxynaphthol blue	Ca	1 spatula tip	25 g	1.04593.0025
Indicator buffer tablets	Ca, Zn	1 tablet in 100 ml water	500 x	1.08430.0500
Magnesium reagent acc. to Mann and Yoe (Xylidyl blue)	Mg	0.01% in water	5 g	1.08712.0005
Methylthymol blue sodium salt	Ba, Bi, Ca, Cd, Cu, Fe, Hg, In, lanthanides, Mg, Mn, Pb, Sc, Sn, Th, Tl, Zn, Zr	1% in ethanol (96%) or 1:100 KNO_3	1 g	1.06084.0001
Morin dihydrate (C. I. 75660)	Al	0.1% in ethanol	5 g	1.06098.0005
Murexide	Ag, Ca, Co, Cu, Mn, Ni, Sc, Th, Zn	1% in water or 1:100 with NaCl or 1:500 with saccharose	5 g	1.06161.0005
Phthalein purple (metal phthalein)	Ba, Ca, Cd, Mg, Sr	0.1% in water or sodium acetate solution 1 mol/l	1 g	1.07297.0001
1-(2-Pyridylazo)-2-naphthol (PAN)	Al, Bi, Cd, Co, Cu, Fe, Ga, Hg, In, Mn, Ni, Pb, Th, Tl, U, V, Zn	0.01–0.1% in ethanol (96%)	1 g	1.07531.0001
4-(2-Pyridylazo)resorcinol monosodium salt monohydrate (PAR)	Al, Bi, Cd, Cu, Fe, Ga, Hg, In, lanthanides, Mn, Ni, Pb, Sr, Th, Tl, Zn	0.05–2% in water	1 g	1.07533.0001
3,5-Pyrocatecholdisulfonic acid disodium salt monohydrate (Tiron)	Fe	2% in water	100 g	1.01922.0100
Pyrocatechol violet	Bi, Cd, Co, Cu, Fe, Ga, In, Mg, Mn, Ni, Pb, Th, Zn	0.1% in water	5 g	1.01919.0005
Pyrogallol red	Bi, Co, Ni, Pb	0.05% in ethanol (50%)	1 g	1.07534.0001
Rhodizonic acid disodium salt	Ba	1% in water	5 g	1.06595.0005
Salicylic acid	Fe, Ti	2% in methanol	25 g	1.59409.0025
Sulfonazo III	Ba	0.1% in water	5 g	1.07995.0005
5-Sulfosalicylic acid dihydrate	Fe, Ti, Tl, V	1–5% in water	100 g	1.00691.0100
Thorin (octahydrate)	Bi, Li, Sc, Th, U, Y	0.5% in water	5 g	1.08294.0005
Thymolphthalexone	Ag, Ba, Ca, Cr, Mn, Sr	1:100 with KNO_3	5 g	1.08459.0005
Xylenol orange tetrasodium salt	Bi, Ca, Cd, Co, Cu, Fe, Hg, In, lanthanides, Mg, Mn, Pb, Sc, Th, Tl, U, V, Y, Zn, Zr	0.1% in ethanol (50%) or 1:100 with KNO_3	1 g	1.08677.0001
Zincon	Cd, Hg, Pb, Zn	0.1% in ethanol (96%)	1 g	1.08739.0001

Element Standards for ICP (Concentration 1000 mg/l)

Element		Composition	Package size	Order No.
Aluminium	Al	$Al(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70301.0100
Antimony	Sb	Sb_2O_3 in HCl 7%	100 ml	1.70302.0100
Arsen	As	H_3AsO_4 in HNO_3 2–3%	100 ml	1.70303.0100
Barium	Ba	$Ba(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70304.0100
Beryllium	Be	$Be_4O(C_2H_3O_2)_6$ in HNO_3 2–3%	100 ml	1.70305.0100
Bismuth	Bi	$Bi(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70306.0100
Boron	B	H_3BO_3 in water	100 ml	1.70307.0100
Cadmium	Cd	$Cd(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70309.0100
Calcium	Ca	$Ca(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70308.0100
Cerium	Ce	$Ce(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70311.0100
Cesium	Cs	$CsNO_3$ in HNO_3 2–3%	100 ml	1.70310.0100
Chromium	Cr	$Cr(NO_3)$ 3 in HNO_3 2–3%	100 ml	1.70312.0100
Cobalt	Co	$Co(NO_3)$ 2 in HNO_3 2–3%	100 ml	1.70313.0100
Copper	Cu	$Cu(NO_3)$ 2 in HNO_3 2–3%	100 ml	1.70314.0100
Dysprosium	Dy	Dy_2O_3 in HNO_3 2–3%	100 ml	1.70315.0100
Erbium	Er	Er_2O_3 in HNO_3 2–3%	100 ml	1.70316.0100
Europium	Eu	Eu_2O_3 in HNO_3 2–3%	100 ml	1.70317.0100
Gadolinium	Gd	Gd_2O_3 in HNO_3 2–3%	100 ml	1.70318.0100
Gallium	Ga	$Ga(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70319.0100
Germanium	Ge	$(NH_4)_2GeF_6$ in water	100 ml	1.70320.0100
Gold	Au	$H(AuCl_4)$ in HCl 7%	100 ml	1.70321.0100
Hafnium	Hf	$HfOCl_2$ in HCl 7%	100 ml	1.70322.0100
Holmium	Ho	Ho_2O_3 in HNO_3 2–3%	100 ml	1.70323.0100
Indium	In	$In(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70324.0100
Iridium	Ir	$IrCl_3$ in HCl 7%	100 ml	1.70325.0100
Iron	Fe	$Fe(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70326.0100
Lanthanum	La	$La(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70327.0100
Lead	Pb	$Pb(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70328.0100
Lithium	Li	$LiNO_3$ in HNO_3 2–3%	100 ml	1.70329.0100
Luthetium	Lu	Lu_2O_3 in HNO_3 2–3%	100 ml	1.70330.0100
Magnesium	Mg	$Mg(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70331.0100
Manganese	Mn	$Mn(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70332.0100
Mercury	Hg	$Hg(NO_3)$ in HNO_3 10%	100 ml	1.70333.0100
Molybdenum	Mo	$(NH_4)_6Mo_7O_{24}$ in water	100 ml	1.70334.0100
Neodymium	Nd	Nd_2O_3 in HNO_3 2–3%	100 ml	1.70335.0100
Nickel	Ni	$Ni(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70336.0100
Niobium	Nb	NH_4NbF_6 in water	100 ml	1.70337.0100
Osmium	Os	$(NH_4)_2OsCl_6$ in HCl 7%	100 ml	1.70338.0100
Palladium	Pd	$Pd(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70339.0100
Phosphorus	P	H_3PO_4 in water	100 ml	1.70340.0100
Platinum	Pt	H_2PtCl_6 in HCl 7%	100 ml	1.70341.0100
Potassium	K	KNO_3 in HNO_3 2–3%	100 ml	1.70342.0100
Praseodymium	Pr	Pr_2O_3 in HNO_3 2–3%	100 ml	1.70343.0100
Rhenium	Re	NH_4ReO_4 in water	100 ml	1.70344.0100
Rhodium	Rh	$Rh(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70345.0100
Rubidium	Rb	$RbNO_3$ in HNO_3 2–3%	100 ml	1.70346.0100
Ruthenium	Ru	$RuCl_3$ in HCl 7%	100 ml	1.70347.0100
Samarium	Sm	Sm_2O_3 in HNO_3 2–3%	100 ml	1.70348.0100
Scandium	Sc	Sc_2O_3 in HNO_3 7%	100 ml	1.70349.0100
Selenium	Se	SeO_2 in HNO_3 2–3%	100 ml	1.70350.0100
Silicon	Si	SiO_2 in NaOH 2%	100 ml	1.70365.0100
Silver	Ag	$AgNO_3$ in HNO_3 2–3%	100 ml	1.70352.0100
Sodium	Na	$NaNO_3$ in HNO_3 2–3%	100 ml	1.70353.0100
Strontium	Sr	$Sr(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70354.0100
Sulfur	S	H_2SO_4 in water	100 ml	1.70355.0100
Tantalum	Ta	$(NH_4)_2TaF_7$ in water	100 ml	1.70356.0100
Tellurium	Te	H_6TeO_6 in HNO_3 2–3%	100 ml	1.70357.0100
Terbium	Tb	$Tb(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70358.0100
Thallium	Tl	$TlNO_3$ in HNO_3 2–3%	100 ml	1.70359.0100
Thulium	Tm	$Tm(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70361.0100
Tin	Sn	$SnCl_4$ in HCl 7%	100 ml	1.70362.0100
Titanium	Ti	$(NH_4)_2TiF_6$ in water	100 ml	1.70363.0100
Tungsten	W	$(NH_4)_2WO_4$ in water	100 ml	1.70364.0100
Vanadium	V	NH_4VO_3 in HNO_3 2–3%	100 ml	1.70366.0100
Ytterbium	Yb	Yb_2O_3 in HNO_3 2–3%	100 ml	1.70367.0100
Yttrium	Y	$Y(NO_3)_3$ in HNO_3 2–3%	100 ml	1.70368.0100
Zinc	Zn	$Zn(NO_3)_2$ in HNO_3 2–3%	100 ml	1.70369.0100
Zirconium	Zr	$ZrOCl_2$ in HCl 7%	100 ml	1.70370.0100

Further informations can be found in specific Merck product brochures or on the Internet under www.merck.de