Table 4: K^+-Selective Electrodes

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
K^+-1	**K^+-1** (w = 2.0 %), KTpClPB (x_i = 55 %), BBPA (w = 65.5 %), PVC (w = 33.0 %)	Li^+, –4.0; Na^+, –4.0; NH_4^+, –1.9; Ca^{2+}, –5.9; Mg^{2+}, –6.2	SSM	–	–	57.4	–	Pt CWE; Pt was coated with poly(vinyl ferrocene); $c_{dl} = 5 \times 10^{-7}$ M	[1]
	K^+-1	Li^+, –5.2; Na^+, –4.3; NH_4^+, –2.0; Ba^{2+}, –4.7; Ca^{2+}, –4.7	FIM	–	0.1; NH_4^+, 0.01	59.0	–	Orion 93–19 K^+–ISE; 2 < pH < 12	[2]
	K^+-1 (w = 3 %), silicone rubber (w = 97 %)	Na^+, <–3.7	FIM	–	0.10	56	–	ISFET	[11,14]
	K^+-1 (w = 3 %), silicone rubber ($w \approx$ 97 %), KTpClPB (x_i = 67 %)	Na^+, <–3.7	FIM	–	0.10	56	–	ISFET	[11,14]
	K^+-1 (w = 3 %), silicone ruber (w = 88.2 %), crosslinking agent (w = 8.8 %)	Na^+ <–3.7	FIM	–	0.10	56	–	ISFET	[11,14]
	K^+-1 (w = 3 %), silicone ruber ($w \approx$ 88 %), crosslinking agent ($w \approx$ 8.8 %), KTpClPB (x_i = 67 %)	Na^+ <–3.7	FIM	–	0.10	55	–	ISFET	[11,14]
	K^+-1 (w = 1.0 %), BBPA (w = 66.0 %), PVC (w = 33.0 %)	Li^+, –4.3; Na^+, –4.0; Rb^+, 0.0; Cs^+, –0.4; NH_4^+, –2.0; H^+ –4.2; Mg^{2+}, –4.8; Ca^{2+}, –4.6; Sr^{2+} –4.4; Ba^{2+}, –4.5	–	–	–	59.8 ± 0.1	10^{-4}–10^{-1}	22 °C	[12]
	K^+-1 (w = 1.3 %), DOS (w = 68.3 %), PVC (w = 30.4 %)	Li^+, –4.7; Na^+, –3.7; Rb^+, +0.4; Cs^+, –0.4; NH_4^+, –1.9; H^+, –4.1; Mg^{2+}, –4.6; Ca^{2+}, –4.8; Sr^{2+}, –4.9; Ba^{2+}, –5.4	–	–	–	59.2 ± 0.1	10^{-4}–10^{-1}	22 °C	[12]
	K^+-1 (w = 2.5 %), silicone rubber (w = 83.0 %), cross–linking agent (w = 14.5 %)	Li^+, –4.3; Na^+, –4.0; Rb^+, +0.6; Cs^+, –0.2; NH_4^+, –1.8; H^+, –4.4; Mg^{2+}, –4.3; Ca^{2+}, –4.2; Sr^{2+}, –4.2; Ba^{2+}, –3.8	–	–	–	59.5 ± 0.2	10^{-4}–10^{-1}	22 °C; minielectrode	[12]

Table 4: K^+-Selective Electrodes *(Continued)*

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	K^+-1 (w = 1.0 %), BEHS (w = 66.0 %), PVC (w = 33.0 %)	Li^+, –4.15; Na^+, –4.77; Rb^+, +0.47; Cs^+, –0.39; NH_4^+, –1.84; H^+, –3.31; Mg^{2+}, –5.22; Ca^{2+}, –5.40; Sr^{2+}, –5.30; Ba^{2+}. –5.15	FIM	–	0.15; H^+, 0.1	–	–	25 °C	[13]
	K^+-1 (w = 1.0 %), bis(2-ethylhexyl) adipate (w = 66.0 %), PVC (w = 33.0 %)	Li^+, –4.11; Na^+, –4.60; Rb^+, +0.453; Cs^+. –0.409; NH_4^+, –1.85; H^+, –2.46; Mg^{2+}, –5.10; Ca^{2+}, –5.15 ; Sr^{2+}, –5.15; Ba^{2+}. –4.05	FIM	–	0.15; H^+, 0.1	–	–	25 °C	[13]
	K^+-1 (w = 3.0 %), adipic acid polyester (w = 67.0 %), PVC (w = 30.0 %)	Li^+, –2.91; Na^+, –3.08; Rb^+, +0.927; Cs^+. —2.63; NH_4^+, –1.63; H^+, –1.71; Mg^{2+}, –4.24; Ca^{2+}, –5.17; Sr^{2+}, –4.14; Ba^{2+}. –4.16	FIM	–	0.15; H^+, 0.1	–	–	25 °C	[13]
	K^+-1 (w = 3.0 %), BEHS (w = 67.0 %), PVC (w = 30.0 %)	Li^+, –4.96; Na^+, –4.68; Rb^+, +0.480; Cs^+. –0.332; NH_4^+, –1.80; H^+, –4.67; Mg^{2+}, –6.56; Ca^{2+}, –5.52; Sr^{2+}, –6.12; Ba^{2+}, –6.46	FIM	–	0.15; H^+, 0.1	–	–	25 °C	[13]
	K^+-1 (w = 2.4 %), BEHS (w = 66.4 %), PVC (w = 30.0 %), KTpClPB (x_i = 88 %)	Li^+, –1.38; Na^+, –0.991; Rb^+, +0.217; Cs^+, +0.534; NH_4^+ –0.656; H^+, –2.42; Mg^{2+}, –3.88; Ca^{2+}. –2.41; Sr^{2+}, –3.61; Ba^{2+}, –3.54	FIM	–	0.15; H^+, 0.1	–	–	25 °C	[13]
	K^+-1 (w = 3.0 %), BEHS (w = 66.7 %), PVC (w = 30.0 %), KTpClPB (x_i = 22 %)	Li^+, –4.56; Na^+, –4.32; Rb^+, +0.461; Cs^+, –0.357; NH_4^+, –1.78; H^+, –3.79; Mg^{2+}, –5.36; Ca^{2+}. –5.14; Sr^{2+}, –5.30; Ba^{2+}, –5.35	FIM	–	0.15; H^+, 0.1	–	–	25 °C	[13]
	K^+-1 (1 mg), oNPOE (100 µL), KTpClPB (x_i = 94 %), cellulose triacetate (109 mg)	Na^+, –2.96 ± 0.2	FIM	–	0.10	52 ± 3	10^{-4}–10^{-2}	25 °C; c_{dl} = (4.1 ± 1.0) × 10^{-5} M	[20]

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Table 4: K^+-Selective Electrodes *(Continued)*

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	K^+-1 (1 mg), oNPOE (100 μL), KTpClPB (x_i = 94 %), cellulose triacetate (109 mg)	Na^+, −3.16 ± 0.1	FIM	–	0.10	50 ± 1	10^{-4}–10^{-2}	25 °C; $c_{dl} = (5.6 \pm 0.2) \times 10^{-5}$ M; Electrodes were coated with heparin.	[20]
	K^+-1 (1 mg), oNPOE (100 μL), KTpClPB (x_i = 94 %), cellulose triacetate (109 mg), carbonyl hydrolysed in 1M NaOH (324 mg)	Na^+, −3.08 ± 0.1	FIM	–	0.10	51 ± 1	10^{-4}–10^{-2}	25 °C; $c_{dl} = (6.3 \pm 0.4) \times 10^{-5}$ M; Electrodes were coated with heparin.	[20]
	K^+-1 (w = 2.7 %), fluorosilicone rubber (w = 96.6 %), KTpClPB (x_i = 50 %)	Li^+, −4.3; Na^+, −3.8; Ca^{2+}, −4.1	FIM	–	0.1	57.33 ± 1.43	9.9×10^{-5} -10^{-1}	room temp.; $c_{dl} = 10^{-6}$ M; ISFET	[21]
	K^+-1 (w = 2.5 %), silicone rubber (w = 83.0 %), crosslinking agent (w = 14.5 %)	Li^+, −4.3; Na^+, −4.0; Rb^+, +0.6; Cs^+, −0.2; NH_4^+, −1.8; H^+, −4.4; Mg^{2+}, −4.3; Ca^{2+}, −4.2; Sr^{2+}, −4.2; Ba^{2+}, −3.8	SSM	0.1	0.1	59.5 ± 0.2	9×10^{-5}–10^{-1}	20 °C	[23]
	K^+-1 (w = 1.5 %), KTpClPB or NaTFPB (x_i = 50 %), decyl methacrylate (w = 22 %), TDDMACl (w = 4.9 %), 1,6-hexanediyl dimethacrylate (w = 29 %), benzophenone (w = 1 %), benzoyl peroxide (w = 2 %), DOS (w = 39 %)	Na^+, −3.88 ± 0.03; Rb^+, +0.48 ± 0.05; NH_4^+, −1.85 ± 0.04	SSM	0.01	0.01	57.1 ± 0.9	–	22 °C; t_{resp} < 10 s; $c_{dl} = 10^{-5.95 \pm 0.02}$ M	[24]
	K^+-1 (w = 0.9 %), oNPOE (w = 67.3 %), PVC (w = 31.8 %)	Li^+, −2.88; Na^+, −3.02; Mg^{2+}, −3.96; Ca^{2+}, −3.80	SSM	0.01	0.01	59.6	–	25 ± 0.5 °C; $c_{dl} = 8.0 \times 10^{-6}$ M	[25]
	K^+-1 (w = 1.5 %), DOS (w = 8.0 %), aliphatic polyurethane (w = 90.1 %), KTpClPB (x_i = 60 %)	Na^+, −3.8; Ca^{2+}, −4.6	FIM	–	Na^+, 0.150; Ca^{2+}, 0.100	56.8 ± 0.2	–	22.0 ± 1.0 °C; $c_{dl} = 10^{-4.7}$ M	[26]
	K^+-1 (w = 1.5 %), DOS (w = 8.0 %), aliphatic polyurethane (w = 90.1 %), KTpClPB (x_i = 60 %)	Na^+, −3.8; Ca^{2+}, −4.5	FIM	–	Na^+, 0.150; Ca^{2+}, 0.100	54.6 ± 0.6	–	22.0 ± 1.0 °C; $c_{dl} = 10^{-4.7}$ M; t_{resp} < 10 s; Electrodes were coated with photo cured poly (ethylene oxide)	[26]

Table 4: K^+-Selective Electrodes *(Continued)*

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	K^+-1 (w = 1.5 %), DOS (w = 8.0 %), KTpClPB (x_i = 60 %), aliphatic polyurethane (w = 80.1 %), block copolymer of poly(ethylene oxide) and poly(propylene oxide) (w = 10.0 %)	Na^+, –3.5; Ca^{2+}, –4.2	FIM	–	Na^+, 0.150 Ca^{2+}, 0.100	53.2 ± 0.6	–	22.0 ± 1.0 °C; $c_{dl} = 10^{-4.4}$ M	[26]
	K^+-1 (w = 1 %), DOA (w = 66 %), PVC (w = 33 %)	Na^+, –4.28	SSM	–	–	57.2	10^{-5}–10^{-1}	$c_{dl} = 5.8 \times 10^{-7}$ M	[27]
	K^+-1 (w = 1 %), DOA (w = 59 %), PVC (w = 20 %), PVC/poly(vinyl acetate)/ poly(vinyl alcohol) copolymer (16:1:3 by weight; w = 20 %)	Na^+, –4.22	SSM	–	–	57.3	–	$c_{dl} = 5.2 \times 10^{-7}$ M	[27]
	K^+-1 (w = 1 %), DOA (w = 66 %), aliphatic polyurethane (w = 26.4 %), PVC/poly(vinyl acetate)/ poly(vinyl alcohol) copolymer (16:1:3 by weight;w = 6.6 %)	Na^+, –4.21	SSM	–	–	57.2	–	$c_{dl} = 5.9 \times 10^{-7}$ M	[27]
	K^+-1 (w = 1 %), polydimethyl siloxane silanol terminated (w = 78 %), (cyanopropyl) methyl/dimethyl siloxane copolymer (10–12:88–90; w = 21 %), KTpClPB (x_i = 76 %)	Na^+, –4.16	SSM	–	–	56.5	–	$c_{dl} = 1.0 \times 10^{-6}$ M	[27]
	K^+-1, DOS, PVC-COOH, KTpClPB (weight ratio not reported)	Li^+, –4.4; Na^+, –3.6; NH_4^+, –1.8; Ca^{2+}, –4.6	FIM	–	–	58.3 ± 0.2 57.7 ± 0.2[†]	10^{-5}–10^{-1}	22.5 ± 0.5 °C; $c_{dl} = 4.0 \times 10^{-6}$ M; 6 < pH < 9; τ > 30 d	[31]
	K^+-1 (membrane composition not reported)	Na^+, <–6; NH_4^+, –0.845; Ca^{2+}, –2.27	–	–	–	–	–		[32]
	K^+-1 (w = 1 %), fluorosilicone rubber (w = 98.7 %), KTpClPB (x_i = 67 %)	Li^+, –3.7; Na^+, –4.2; NH_4^+, –1.9; Mg^{2+}, –4.7; Ca^{2+}, –4.7	SSM	0.01	0.01	55.7	–	ISFET; 25 °C; $c_{dl} = 1 \times 10^{-6}$ M	[33]

[†] in 0.14 M Na^+.
[††] after storage over 3 months.

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	K⁺-1 (w = 1.3 %), fluorosilicone rubber (w = 98.3 %), KTFPB (x_i = 36 %)	Li^+, –4.1, –3.5††; Na^+, –4.5, –3.2††; NH_4^+, –2.4, –1.8††; Mg^{2+}, –5.1, –3.5††; Ca^{2+}, –4.9, –4.5††	SSM	0.01	0.01	57.6 56.6††	–	ISFET; 25 °C; $c_{dl} = 1 \times 10^{-7}$ M, 5×10^{-7} M††;	[33]
	K⁺-1 (w = 1.4 %), silicone rubber (w = 98.6 %)	Na^+, –3.7; Ca^{2+}, -3.7	FIM	–	0.1	55.0	–	22 ± 2 °C	[34]
	K⁺-1 (w = 1.0 %), KTpClPB (x_i = 45 %), silicone rubber (w = 98.8 %)	Na^+, –3.6; Ca^{2+}, –3.7	FIM	–	0.1	56.0	–	22 ± 2 °C	[34]
	K⁺-1 (w = 1.1 %), DOS (w = 5.0 %), KTpClPB (x_i = 41 %), silicone rubber (w = 93.7 %)	Na^+, –3.6; Ca^{2+}, -3.7	FIM	–	0.1	57.0	–	22 ± 2 °C	[34]
	K⁺-1 (w = 1.2 %), KTFPB (x_i = 44 %), silicone rubber (w = 98.5 %)	Na^+, –3.8; Ca^{2+}, -3.9	FIM	–	0.1	57.4	–	22 ± 2 °C	[34]
	K⁺-1 (w = 1.0 %), DOS (w = 6.0 %), KTFPB (x_i = 71 %), silicone rubber (w = 92.6 %)	Na^+, –3.9; Ca^{2+}, –4.0	FIM	–	0.1	57.7	–	22 ± 2 °C	[34]
	K⁺-1 (w = 1.1 %), KTpClPB (x_i = 41 %), silicone rubber (w = 98.7 %)	Na^+, –3.7; Ca^{2+}, –3.6	FIM	–	0.1	56.5	–	22 ± 2 °C; solid-state sensor	[34]
	K⁺-1 (w = 1.0 %), KTFPB (x_i = 35 %), silicone rubber (w = 98.8 %)	Na^+, –3.8; Ca^{2+}, –4.0	FIM	–	0.1	58.6	–	22 ± 2 °C; solid–state sensor	[34]
	K⁺-1 (w = 1.0 %), DOS (w = 4.5 %), silicone rubber (w = 94.3 %), KTFPB (x_i = 35 %)	Na^+, –3.7; Ca^{2+}, –3.9	FIM	–	0.1	58.2	–	22 ± 2 °C; solid–state sensor	[34]
K⁺-2	**K⁺-2** (w = 3 %), DBS (w = 70 %), PVC (w = 27 %)	Li^+, –2.2; Na^+, –1.9; Rb^+, –0.4; Cs^+, –1.3; Mg^{2+}, –3.8; Ca^{2+}, –3.7; Sr^{2+}, –3.1; Ba^{2+}, –0.2	SSM	0.1	0.1	56	$10^{-4.3}$ –$10^{-1.5}$	25.0 ± 0.1 °C; r.o.o.g.; $t_{resp} < 30$ s	[17]
K⁺-3	**K⁺-3** (w = 5 %), PVC (w = 32 %), oNPOE (w = 63 %)	Na^+, –2.7; Rb^+, –0.40; Cs^+, –0.52; NH_4^+, –1.5	FIM	–	0.1, 0.01	53	$10^{-3.5}$ –$10^{-1.5}$	25.0 ± 0.1 °C	[4]

† in 0.14 M Na^+.
†† after storage over 3 months.

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
K⁺-4	**K⁺-4** (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	Li^+, –3.90; NH_4^+, –1.92; Mg^{2+}, –4.35; Ca^{2+}, –3.50	SSM	0.1	0.1	55.9	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –2.65	FIM	–	–				
	K⁺-4 (w = 0.9 %), PVC (w = 31.8 %), BBPA (w = 67.3 %)	Na^+, –3.16	SSM	0.01	0.01	52.0	–	25 ± 0.5 °C; $c_{dl} = 7.6 \times 10^{-6}$ M	[25]
	K⁺-4 (w = 0.9 %),PVC (w = 31.8 %), DOA (w = 67.3 %)	Li^+, –3.23; Na^+, –2.72: Mg^{2+}, –4.18; Ca^{2+}, –4.21	SSM	0.01	0.01	60.0	–	25 ± 0.5 °C; $c_{dl} = 7.5 \times 10^{-6}$ M	[25]
	K⁺-4 (w = 0.9 %), PVC (w = 31.8 %), DOS (w = 67.3 %)	Li^+, –3.25; Na^+, –2.53: Mg^{2+}, –4.08; Ca^{2+}, –4.20	SSM	0.01	0.01	60.5	–	25 ± 0.5 °C; $c_{dl} = 2.5 \times 10^{-6}$ M	[25]
	K⁺-4 (w = 0.9 %), PVC (w = 31.8 %), oNPOE (w = 67.3 %)	Li^+, –3.28; Na^+, –2.58: Mg^{2+}, –4.04; Ca^{2+}, –4.00	SSM	0.01	0.01	61.0	–	25 ± 0.5 °C; $c_{dl} = 3.2 \times 10^{-6}$ M	[25]
	K⁺-4 (w = 0.9 %), PVC ($w \approx$ 32 %), bis(2-ethylhexyl) adipate ($w \approx$ 67 %), KTpClPB (x_i = 50 %)	Na^+, –2.67	SSM	0.01	0.01	45.5	–	25 ± 0.5 °C; $c_{dl} = 5.5 \times 10^{-6}$ M	[25]
	K⁺-4 (w = 0.9 %), DOS (w = 67.0 %), PVC (w = 31.6 %). KTpClPB (x_i = 50 %)	Li^+, –3.16; Na^+, –3.05: Mg^{2+}, –4.09; Ca^{2+}, –3.94	SSM	0.01	0.01	57.5	–	25 ± 0.5 °C; $c_{dl} = 3.5 \times 10^{-6}$ M	[25]
	K⁺-4 (w = 0.9 %), PVC (w = 31.6 %), oNPOE (w = 67.0 %), KTpClPB (x_i = 50 %)	Li^+, –3.14; Na^+, –3.08: Mg^{2+}, –3.92; Ca^{2+}, –3.88	SSM	0.01	0.01	59.2	–	25 ± 0.5 °C; $c_{dl} = 7.5 \times 10^{-6}$ M	[25]
K⁺-5	**K⁺-5** (w = 3.8 %), oNPOE (w = 64.2 %), PVC (w = 32.0 %)	Na^+, –3.7; Rb^+, –0.70; Cs^+, –2.0; NH_4^+,–1.4	FIM	–	NH_4^+, 0.01; Rb^+, Cs^+, 0.001; Na^+, 1	–	10^{-4}–10^{-1}	25.0 ± 0.1 °C; t_{resp} < 10 s	[3,4]
K⁺-6	**K⁺-6** (w = 0.3–0.4 %), DBP ($w \approx$ 81 %), PVC ($w \approx$ 19 %)	Li^+, –5.0; Na^+, –4.0; Cs^+, –2.0; NH_4^+, –2.1; Mg^{2+}, –4.0; Ca^{2+}, –2.9; Sr^{2+}, –2.9; Ba^{2+}, –5.0; Zn^{2+}, –5.0; Cu^{2+}, –2.5	SSM	–	–	52 ± 1	10^{-4}–1	t_{resp} = 30–60 s; $c_{dl} = 2.0 \times 10^{-5}$ M	[5]
K⁺-7	**K⁺-7** (w = 0.4–0.5 %), DOP (w = 77–80 %), PVC (w = 20–23 %)	Li^+, –5.0; Na^+, –4.0; Cs^+, –5.0; NH_4^+, –1.9; Mg^{2+}, –5.0; Ca^{2+}, –5.0; Sr^{2+}, –5.0; Ba^{2+}, –5.0; Zn^{2+}, –5.0	SSM or FIM	–	–	30 ± 1	10^{-5}–10^{-1}	$c_{dl} = 3.2 \times 10^{-6}$ M	[6]

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
K^+-8	**K^+-8** (w = 1 %), BEHS (w = 66 %), PVC (w = 33 %)	H^+, –3.22; Li^+, –3.40; Na^+, –3.04; NH_4^+, –1.97; Mg^{2+}, –2.64; Ca^{2+}, –4.12	SSM	0.1	0.1	58.48	–	r.o.o.g.; t_{resp} = 43.6 ms,† 38.4 ms††	[7]
	K^+-8 (w = 1 %), BEHS (w = 66 %), PVC–COOH (w = 33 %)	H^+, –3.20; Li^+, –3.54; NH_4^+, –2.16; Mg^{2+}, –2.76; Ca^{2+}, –4.32	SSM	0.1	0.1	58.89	–	r.o.o.g.; t_{resp} = 35.0 ms,† 52.9 ms††	[7]
	K^+-8 (w = 1 %), BEHS (w = 66 %), PVC (w = 33 %), KTpClPB (x_i = 75 %)	H^+, –3.52; Li^+, –3.56; Na^+, –3.16; NH_4^+, –2.18; Mg^{2+}, –2.76; Ca^{2+}, –4.38	SSM	0.1	0.1	59.36	–	r.o.o.g.; t_{resp} = 31.1ms,† 28.1ms††	[7]
	K^+-8 (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	Li^+, –3.4; Na^+, –3.0; Cs^+, –2.2; NH_4^+, –2.0; Mg^{2+}, –3.8; Ca^{2+}, –4.0	SSM	0.1	0.1	53.8 51.2	10^{-4}–10^{-1} 10^{-5}–10^{-1}	room temp.; $c_{dl} = 10^{-4.8}$ M; FIA	[15]
	K^+-8 (w = 2 %), BBPA (w = 65 %), PVC (w = 33 %)	Li^+, –3.6; Na^+, –3.2; Cs^+, –2.4; NH_4^+, –2.1; Mg^{2+}, –4.4; Ca^{2+}, –4.4	SSM	0.1	0.1	57.5 56.9	10^{-4}–10^{-1} 10^{-5}–10^{-1}	room temp.; $c_{dl} = 10^{-5.7}$ M; FIA	[15]
	K^+-8 (w = 2 %), oNPOE ($w \approx$ 65 %), PVC (w = 33 %), KTpClPB (x_i = 70 %)	Li^+, –3.8; Na^+, –3.2; Cs^+, –2.5; NH_4^+, –2.1; Mg^{2+}, –5.0; Ca^{2+}, –4.5	SSM	0.1	0.1	57.9 56.0	10^{-4}–10^{-1} 10^{-5}–10^{-1}	room temp.; $c_{dl} = 10^{-5.3}$ M; FIA	[15]
	K^+-8 (w = 2 %), BBPA ($w \approx$ 65 %), PVC (w = 33 %), KTpClPB (x_i = 70 %)	Li^+, –3.8; Na^+, –3.3; Cs^+, –2.3; NH_4^+, –2.1; Mg^{2+}, –4.3; Ca^{2+}, –4.5	SSM	0.1	0.1	58.1 55.6	10^{-4}–10^{-1} 10^{-5}–10^{-1}	room temp.; $c_{dl} = 10^{-5.8}$ M; FIA	[15]
	K^+-8 (w = 1 %), DOS (w = 66 %). PVC (w = 32.6 %), NaTPB (x_i = 110 %)	Li^+, –3.8; Cs^+, –2.4; NH_4^+, –2.1; Ca^{2+}, –4.2	SSM	0.1	0.1	58.1	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –3.2	FIM	–	–				
	K^+-8 (w = 1 %), PVC (w = 32.6 %), dinonyl adipate (w = 66 %), NaTPB (x_i = 110 %)	NH_4^+, –2.2	SSM	0.1	0.1	58.1 ± 0.1	10^{-4}–10^{-1}	20 ± 2 °C	[19]
		Na^+, –3.2	FIM	–	–				
	K^+-8 (w = 1.4 %), fluorosilicone rubber (w = 98.2 %), KTpClPB (x_i = 40 %)	Li^+, –3.4; Na^+, –3.1; NH_4^+, –1.9; Mg^{2+}, –4.2; Ca^{2+}, –4.2	SSM	10^{-2}	10^{-2}	56.8	–	ISFET; 25 °C; $c_{dl} = 1 \times 10^{-6}$ M	[33]

† unconditioned membrane
†† membranes conditioned in 10^{-3} M KCl

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	K^+-8 (w = 1.5 %), fluorosilicone rubber (w = 97.8 %), KTpClPB (x_i = 73 %)	Li^+, –3.8; Na^+, –3.5; NH_4^+, –2.2; Mg^{2+}, –4.6; Ca^{2+}, –4.7	SSM	10^{-2}	10^{-2}	56.5	–	ISFET; 25 °C; $c_{dl} = 1 \times 10^{-6}$ M	[33]
K^+-9	**K^+-9** (w = 3 %), silicone rubber (w = 88.2 %), cross–linking agent (w = 8.8 %)	Na^+, ≦–3.3	FIM	–	0.10	55	–	ISFET	[11]
	K^+-9 (w = 3 %), silicone rubber (w = 97 %)	Na^+, ≦–3.3	FIM	–	0.1	55	–	ISFET	[14]
K^+-10	**K^+-10** (w = 3 %), silicone rubber (w = 88.2 %), cross–linking agent (w = 8.8 %)	Na^+, ≦–3.1	FIM	–	0.10	56	–	ISFET	[12]
	K^+-10 (w = 3 %), silicone rubber (w = 97 %)	Na^+, ≦–3.1	FIM	–	0.1	56	–	ISFET; poly(hydroxyethyl methacrylate) was covalently attached to SiO_2 gate.	[14]
K^+-11	**K^+-11** (w = 3.2–3.8 %), oNPOE ($w \approx$ 64 %), PVC ($w \approx$ 32 %)	Na^+, –3.4; Rb^+, –0.52; Cs^+, –0.70; NH_4^+, –1.5	FIM	–	0.1, 0.01	55	10^{-4}–10^{-1}	25.0 ± 0.1 °C	[4]
K^+-12	**K^+-12** (w = 0.4–0.5 %), DOP (w = 77–80 %), PVC (w = 20–23 %)	Li^+, –5.00; Cs^+, –1.30; NH_4^+, –3.00; Mg^{2+}, –3.40; Ca^{2+}, –5.00; Sr^{2+}, –5.00; Ba^{2+}, –5.00; Zn^{2+}, –4.70	SSM	–	–	46 ± 1	–		[6]
		Na^+, –2.30	FIM	–	–		–		
K^+-13	**K^+-13** (w = 0.4–0.5 %), DOP (w = 77–80 %), PVC (w = 20–23 %)	Li^+, –4.00; Cs^+, –4.00; NH_4^+, –4.00; Mg^{2+}, –2.30; Ca^{2+}, –5.00; Sr^{2+}, –5.00; Ba^{2+}, –5.00; Zn^{2+}, –5.00	SSM	–	–	38 ± 1			[6]
		Na^+, –3.60	FIM	–	–				
K^+-14	**K^+-14** (w = 0.4–0.5 %), DOP (w = 77–80 %), PVC (w = 20–23 %)	Li^+, –5.00; Cs^+, –5.00; NH_4^+, –2.20; Mg^{2+}, –5.00; Ca^{2+}, –5.00; Sr^{2+}, –5.00; Ba^{2+}, –5.00; Zn^{2+}, –5.00	SSM	–	–	55 ± 1	10^{-1}–10^{-5}	–	[6]
		Na^+, –3.70	FIM	–	–				
K^+-15	**K^+-15** (w = 0.4–0.5 %), DOP (w = 77–80 %), PVC (w = 20–23 %)	Li^+, –5.00; Cs^+, –4.40; NH_4^+, –1.70; Mg^{2+}, –5.00; Ca^{2+}, –5.00; Sr^{2+}, –4.30;	SSM	–	–	38 ± 1	$10^{-1.5}$–$10^{-5.3}$		[6]

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
		Ba^{2+}, –5.00; Zn^{2+}, –5.00 Na^+, –2.70;	FIM	–	–				
K⁺-16	**K⁺-16** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –0.20; Na^+, –1.40; Rb^+, –0.20; Cs^+, –1.20; NH_4^+, –0.70; Mg^{2+}, –1.40; Ca^{2+}, –1.80; Sr^{2+}, –1.00; Ba^{2+}, –1.60	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-17	**K⁺-17** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.1; Na^+, –2.7; Rb^+, –0.4; Cs^+, –2.7; NH_4^+, –1.6; Mg^{2+}, –4.1; Ca^{2+}, –3.4; Sr^{2+}, –3.0; Ba^{2+}, –3.2	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-18	**K⁺-18** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.2; Na^+, –2.9; Rb^+, –0.4; Cs^+, –2.5; NH_4^+, –1.8; Mg^{2+}, –4.2; Ca^{2+}, –3.7; Sr^{2+}, –3.2; Ba^{2+}, –3.4	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-19	**K⁺-19** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.0; Na^+, –2.5; Rb^+, –0.8; Cs^+, –2.3; NH_4^+, –1.6; Mg^{2+}, –3.5; Ca^{2+}, –3.4; Sr^{2+}, –3.0; Ba^{2+}, –3.4	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-20	**K⁺-20** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.3; Na^+, –2.95; Rb^+, –0.7; Cs^+, –2.4; NH_4^+, –1.7; Mg^{2+}, –4.1; Ca^{2+}, –3.8; Sr^{2+}, –3.1; Ba^{2+}, –3.9	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-21	**K⁺-21** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.3; Na^+, –2.9; Rb^+, –0.5; Cs^+, –2.9; NH_4^+, –1.7; Mg^{2+}, –4.3; Ca^{2+}, –3.6; Sr^{2+}, –3.2; Ba^{2+}, –3.5	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-22	**K⁺-22** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.2; Na^+, –2.9; Rb^+, –0.7; Cs^+, –2.5; NH_4^+, –1.8; Mg^{2+}, –4.1;	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
		Ca^{2+}, –3.7; Sr^{2+}, –3.1; Ba^{2+}, –3.8							
K⁺-23	**K⁺-23** (*w* = 2 %), oNPOE (*w* = 64 %), PVC (*w* = 34 %)	Li^+, +0.3; Na^+, –1.1; Rb^+, –0.2; Cs^+, –1.0; NH_4^+, –0.6; Mg^{2+}, –0.9; Ca^{2+}, –1.8; Sr^{2+}, –0.6; Ba^{2+}, –1.5	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-24	**K⁺-24** (*w* = 2 %), oNPOE (*w* = 64 %), PVC (*w* = 34 %)	Li^+, –2.9; Na^+, –2.7; Rb^+, –1.0; Cs^+, –2.4; NH_4^+, –1.7; Mg^{2+}, –3.9; Ca^{2+}, –3.6; Sr^{2+}, –3.1; Ba^{2+}, –3.3	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-25	**K⁺-25** (*w* = 2 %), oNPOE (*w* = 64 %), PVC (*w* = 34 %)	Li^+, –2.4; Na^+, –2.5; Rb^+, –1.1; Cs^+, –2.2; NH_4^+, –1.4; Mg^{2+}, –3.4; Ca^{2+}, –3.2; Sr^{2+}, –2.7; Ba^{2+}, –2.9	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-26	**K⁺-26** (*w* = 2 %), oNPOE (*w* = 64 %), PVC (*w* = 34 %)	Li^+, –0.5; Na^+, –1.6; Rb^+, –0.2; Cs^+, –1.4; NH_4^+, –1.0; Mg^{2+}, –1.2; Ca^{2+}, –2.5; Sr^{2+}, –1.9; Ba^{2+}, –1.8	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-27	**K⁺-27** (*w* = 2 %), oNPOE (*w* = 64 %), PVC (*w* = 34 %)	Li^+, –2.9; Na^+, –2.6; Rb^+, –0.5; Cs^+, –2.2; NH_4^+, –1.6; Mg^{2+}, –4.0; Ca^{2+}, –3.5; Sr^{2+}, –3.3; Ba^{2+}, –3.3	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-28	**K⁺-28** (*w* = 2 %), oNPOE (*w* = 64 %), PVC (*w* = 34 %)	Li^+, –3.4; Na^+, –2.9; Rb^+, –0.8; Cs^+, –2.7; NH_4^+, –1.7; Mg^{2+}, –4.3; Ca^{2+}, –3.4; Sr^{2+}, –3.4; Ba^{2+}, –3.3	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K⁺-29	**K⁺-29** (*w* = 2 %), oNPOE (*w* = 64 %), PVC (*w* = 34 %)	Li^+, –1.3; Na^+, –1.9; Rb^+, –0.9; Cs^+, –2.0; NH_4^+, –1.3; Mg^{2+}, –2.6;	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
		Ca^{2+}, –2.7; Sr^{2+}, –2.1; Ba^{2+}, –2.4							
K^+-30	**K^+-30** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.4; Na^+, –3.0; Rb^+, –0.9; Cs^+, –2.7; NH_4^+, –1.9; Mg^{2+}, –4.3; Ca^{2+}, –3.8; Sr^{2+}, –3.2; Ba^{2+}, –3.4	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
	K^+-30 (w = 2 %), oNPOE (w = 64 %), PVC (POLANVIL S–70) (w = 34 %)	Li^+, –3.4; Na^+, –3.0; Rb^+, –0.9; Cs^+, –2.7; NH_4^+, –1.9; Mg^{2+}, –4.3; Ca^{2+}, –3.8; Sr^{2+}, –3.2; Ba^{2+}, –3.4	SSM	0.1	0.1	56	$10^{-4.4}$ -10^{-1}	25.0 ± 0.1 °C	[8]
	K^+-30 (w = 2 %), oNPOE (w = 64 %), PVC (HOSTALIT PVC) (w = 34 %)	Li^+, –3.5; Na^+, –3.3; Rb^+, –0.9; Cs^+, –2.8; NH_4^+, –2.0; Mg^{2+}, –4.3; Ca^{2+}, –3.7; Sr^{2+}, –3.1; Ba^{2+}, –3.3	SSM	0.1	0.1	58	$10^{-5.1}$–10^{-1}	25.0 ± 0.1 °C; $c_{dl} = 10^{-4.8}$ M	[8]
		Na^+, –3.5	FIM	–	–	–	–		
K^+-31	**K^+-31** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –2.2; Na^+, –2.5; Rb^+, –0.6; Cs^+, –1.7; NH_4^+, –1.6; Mg^{2+}, –3.0; Ca^{2+}, –2.9; Sr^{2+}, –2.4; Ba^{2+}, –2.6	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K^+-32	**K^+-32** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.0; Na^+, –2.6; Rb^+, –0.3; Cs^+, –2.6; NH_4^+, –1.5; Mg^{2+}, –4.3; Ca^{2+}, –3.7; Sr^{2+}, –3.2; Ba^{2+}, –3.3	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K^+-33	**K^+-33** (w = 2 %), oNPOE (w = 64 %), PVC (w = 34 %)	Li^+, –3.2; Na^+, –2.8; Rb^+, –0.9; Cs^+, –2.5; NH_4^+, –1.7; Mg^{2+}, –4.3; Ca^{2+}, –3.7; Sr^{2+}, –3.2; Ba^{2+}, –3.2	SSM	0.1	0.1	–	–	25.0 ± 0.1 °C	[8]
K^+-34	**K^+-34** (w = 0.3–0.5 %), DBP (w = 77–80 %),	Li^+, –5.0; Na^+, –2.6; Cs^+, –1.0; NH_4^+ –2.3;	SSM	–	–	44 ± 1	10^{-4}–1	t_{resp} = 30–60 s;	[5]

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	PVC (w = 20–23 %)	Mg^{2+}, –3.7; Ca^{2+}, –3.0; Sr^{2+}, –2.6; Ba^{2+}, –5.0; Cu^{2+}, –1.0; Zn^{2+}, –2.7						5.5 < pH < 10.5; $c_{dl} = 5.6 \times 10^{-5}$ M	
K⁺-35	**K⁺-35** (w = 0.3–0.5 %), DOP (w = 77–80 %), PVC (w = 20–23 %)	Li^+, –5.0; Na^+, –3.3; Cs^+, –1.6; NH_4^+, –1.5; Mg^{2+}, –2.6; Ca^{2+}, –3.0; Sr^{2+}, –1.6; Ba^{2+}, –5.0; Cu^{2+}, –0.70; Zn^{2+}, –5.0	SSM	–	–	43 ± 1	10^{-4}–1	t_{resp} = 30–60 s; 5.5 < pH < 10.5; $c_{dl} = 7.9 \times 10^{-5}$ M	[5]
K⁺-36	**K⁺-36** (w = 0.3–0.5 %), DBP (w = 77–80 %), PVC (w = 20–23 %)	Li^+, –5.0; Na^+, –3.1; Cs^+, –1.6; NH_4^+, –1.7; Mg^{2+}, –3.4; Ca^{2+}, –4.0; Sr^{2+}, –2.4; Cu^{2+}, –1.5; Zn^{2+}, –2.4	SSM	–	–	47 ± 1	10^{-4}–1	t_{resp} = 30–60 s; 5 < pH < 10.5; $c_{dl} = 5.0 \times 10^{-5}$ M	[5]
K⁺-37	**K⁺-37** (w = 1.64 %), diethyl phthalate (w = 65.04 %), PVC (w = 32.52 %), NaTPB (x_i = 50 %)	Li^+, –1.13; Na^+, –1.63; Mg^{2+}, –2.26; Ca^{2+}, –2.72	FIM	–	–	53.5	10^{-4}–10^{-1}	25 ± 1 °C; $c_{dl} = 10^{-4.45}$ M	[9]
K⁺-38	**K⁺-38** (w = 1.64 %), diethyl phthalate (w = 65.04 %), PVC (w = 32.52 %), NaTPB (x_i = 50 %)	Li^+, –1.77; Na^+, –1.96; Cs^+, –2.10; NH_4^+, –1.47; Mg^{2+}, –2.96; Ca^{2+}, –2.85; Sr^{2+}, –2.64; Ba^{2+}, –2.69; Mn^{2+}, –2.80; Co^{2+}, –2.88; Ni^{2+}, –2.92; Cu^{2+}, –2.82; Cd^{2+}, –1.45; Al^{3+}, –2.39	FIM	–	–	58.0	10^{-4}–10^{-1}	25 ± 1 °C; $c_{dl} = 10^{-4.60}$ M; t_{90} = 2 min; τ = 45 d; 5.5 < pH < 7.5	[9]
	K⁺-38 (w = 1.64 %), PVC (w = 32.52 %), DBP (w = 65.04 %), NaTPB (x_i = 50 %)	Li^+, –1.27; Na^+, –1.79; Mg^{2+}, –2.28; Ca^{2+}, –2.72	FIM	–	–	–	–		[9]
	K⁺-38 (w = 1.64 %), PVC (w = 32.52 %), NaTPB (x_i = 50 %), acetophenone (w = 65.04 %)	Li^+, –0.29; Na^+, –0.12; Mg^{2+}, –0.63; Ca^{2+}, –0.43;	FIM	–	–	–	–		[9]
	K⁺-38 (w = 1.64 %), oNPOE (w = 65.04 %), PVC (w = 32.52 %), NaTPB (x_i = 50 %)	Li^+, –0.52; Na^+, –0.46; Mg^{2+}, –0.85; Ca^{2+}, –0.64	FIM	–	–	–	–		[9]

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	K^+-38 (w = 1.64 %), PVC (w = 32.52 %), nitrobenzene (w = 65.04 %), NaTPB (x_i = 50 %)	Li^+, –0.53; Na^+, –0.15; Mg^{2+}, –0.52; Ca^{2+}, –0.43	FIM	–	–	–	–		[9]
K^+-39	**K^+-39** (w = 1.64 %), diethyl phthalate (w = 65.04 %), PVC (w = 32.52 %), NaTPB (x_i = 50 %)	Li^+, –1.00; Na^+, –1.67; Mg^{2+}, –2.13; Ca^{2+}, –2.27	FIM	–	–	53.0	10^{-4}–10^{-1}	25 ± 1 °C; $c_{dl} = 10^{-4.3}$ M	[9]
K^+-40	**K^+-40** (w = 1.64 %), diethyl phthalate (w = 65.04 %), PVC (w = 32.52 %), NaTPB (x_i = 50 %)	Li^+, –1.11; Na^+, –1.60; Mg^{2+}, –2.00; Ca^{2+}, –2.05	FIM	–	–	51.5	10^{-4}–10^{-1}	25 ± 1 °C; $c_{dl} = 10^{-4.26}$ M	[9]
K^+-41	**K^+-41** (w = 2.7 %), DBP (w = 64 %), PVC (w = 32 %), KTpClPB (x_i = 60 %)	Li^+, –1.95; Na^+, –2.35; Rb^+, –2.20; Cs^+, –2.25; NH_4^+, –2.05; Mg^{2+}, –2.90; Ca^{2+}, –3.05; Sr^{2+}, –3.20; Ba^{2+}, –3.30; Mn^{2+}, –2.55; Co^{2+}, –2.70; Ni^{2+}, –3.00; Cu^{2+}, –2.75; Cd^{2+}, –2.45; Al^{3+}, –3.45	SSM	–	–	–	10^{-5}–10^{-1}	25 ± 1 °C; r.o.o.g.; $\tau > 60$ d; $t_{resp} < 20$ s	[10]
K^+-42	**K^+-42** (w = 2.7 %), DBP (w = 64 %), PVC (w = 32 %), KTpClPB (x_i = 81 %)	Li^+, –1.81; Na^+, –2.25; Rb^+, –2.10; Cs^+, –2.20; NH_4^+, –1.91; Mg^{2+}, –2.80; Ca^{2+}, –3.00; Sr^{2+}, –3.11 Ba^{2+}, –3.20; Mn^{2+}, –2.45; Co^{2+}, –2.60; Ni^{2+}, –2.90; Cu^{2+}, –2.70; Cd^{2+}, –2.32; Al^{3+}, –3.57	SSM	–	–	–	10^{-5}–10^{-1}	25 ± 1 °C; r.o.o.g.; $\tau > 60$ d; $t_{resp} < 20$ s	[10]
K^+-43	**K^+-43** (w = 2.7 %), DBP (w = 64 %), PVC (w = 32 %), KTpClPB (x_i = 68 %)	Li^+, –2.05; Na^+, –2.40; Rb^+, –2.32; Cs^+, –2.33; NH_4^+, –2.17; Mg^{2+}, –3.00; Ca^{2+}, –3.15; Sr^{2+}, –3.40; Ba^{2+}, –3.50; Mn^{2+}, –2.70; Co^{2+}, –2.84; Ni^{2+}, –3.10; Cu^{2+}, –2.85; Cd^{2+}, –2.60; Al^{3+}, –3.59	SSM	–	–	–	10^{-5}–10^{-1}	25 ± 1 °C; r.o.o.g.; $\tau > 60$ d; $3 < pH < 11$; $t_{resp} < 20$ s; $c_{dl} = 4 \times 10^{-6}$ M	[10]

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
K⁺-44	**K⁺-44** (w = 2.7 %), DBP (w = 64 %), PVC (w = 32 %), KTpClPB (x_i = 73 %)	Li^+, –2.10; Na^+, –2.50; Rb^+, –2.32; Cs^+, –2.40; NH_4^+, –2.19; Mg^{2+}, –3.10; Ca^{2+}, –3.19; Sr^{2+}, –3.50; Ba^{2+}, –3.58; Mn^{2+}, –2.80; Co^{2+}, –3.00; Ni^{2+}, –3.11; Cu^{2+}, –2.90; Cd^{2+}, –2.70; Al^{3+}, –3.59	SSM	–	–	60	10^{-5}–10^{-1}	25 ± 1 °C; r.o.o.g.; τ > 60 d; $c_{dl} = 4 \times 10^{-6}$ M; t_{resp} < 20 s	[10]
K⁺-45	**K⁺-45** (w = 10 %), DOP (w = 65 %), PVC (w = 25 %)	Li^+, –1.5; Na^+, –0.4; Cs^+, –0.2; Ca^{2+}, –3.8; Sr^{2+}, –2.2; Ba^{2+}, –2.9; Pb^{2+}, –1.7	FIM	–	10^{-3}	56.6	>$10^{-4.7}$	Cu CWE	[16]
K⁺-46	**K⁺-46** (w = 10 %), DOP (w = 65 %), PVC (w = 25 %)	Li^+, –0.5; Na^+, –0.4; Cs^+, –0.2; Ca^{2+}, –1.8; Sr^{2+}, –1.0; Ba^{2+}, –1.3; Pb^{2+}, –1.3	FIM	–	10^{-3}	56.1	>$10^{-4.7}$	Cu CWE	[16]
K⁺-47	**K⁺-47** (w = 3 %), DBS (w = 70 %), PVC (w = 27 %)	Li^+, –2.4; Na^+, –1.8; Rb^+, –0.3; Cs^+, –0.8; Mg^{2+}, –3.9; Ca^{2+}, –3.8; Sr^{2+}, –3.8; Ba^{2+}, –3.6	SSM	0.1	0.1	59	10^{-5}–10^{-1}	25 ± 0.5 °C; r.o.o.g.; t_{resp} < 30 s	[17]
K⁺-48	**K⁺-48** (w = 3 %), DBS (w = 70 %), PVC (w = 27 %)	Li^+, –1.7; Na^+, –1.5; Rb^+, –0.1; Cs^+, –1.0; Mg^{2+}, –4.6; Ca^{2+}, –4.4; Sr^{2+}, –4.4; Ba^{2+}, –4.1	SSM	0.1	0.1	58	10^{-5}–10^{-1}	25 ± 0.5 °C; r.o.o.g.; t_{resp} < 30 s	[17]
K⁺-49	**K⁺-49** (w = 3 %), DBS (w = 70 %), PVC (w = 27 %)	Li^+, –1.7; Na^+, –0.5; Rb, –0.4; Cs^+, –0.8; Mg^{2+}, –3.2; Ca^{2+}, –3.0; Sr^{2+}, –2.4; Ba^{2+}, –1.6	SSM	0.1	0.1	58	10^{-5}–10^{-1}	25 ± 0.5 °C; r.o.o.g.; t_{resp} < 30 s	[17]
K⁺-50	**K⁺-50** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 22 %)	Li^+, –2.0; Na^+, –0.9; Cs^+, –1.0; NH_4^+, –0.5; Mg^{2+}, –2.8; Ca^{2+}, –1.5; Sr^{2+}, –1.8; Ba^{2+}, –0.2; Mn^{2+}, –2.0; Co^{2+}, –2.2; Ni^{2+}, –1.5; Cu^{2+}, –0.2; Zn^{2+}, –2.6; Cd^{2+}, –1.8;	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
		Pb^{2+}, –0.1; Ag^+, +2.8; Hg^{2+}, +0.1							
K⁺-51	**K⁺-51** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 23 %)	Li^+, –1.1; Na^+, –0.4; Cs^+, –0.4; NH_4^+, –0.8; Mg^{2+}, –2.5; Ca^{2+}, –0.2; Sr^{2+}, –0.0; Ba^{2+}, +0.2; Mn^{2+}, –1.3; Co^{2+}, –1.6; Ni^{2+}, –1.3; Cu^{2+}, +0.8; Zn^{2+}, –2.0; Cd^{2+}, +1.0; Pb^{2+}, +1.1; Ag^+, +4.3; Hg^{2+}, +4.5	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K⁺-52	**K⁺-52** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 24 %)	Li^+, –1.8; Na^+, –1.1; Cs^+, +0.3; NH_4^+, –0.4; Mg^{2+}, –2.9; Ca^{2+}, –1.6; Sr^{2+}, –2.2; Ba^{2+}, –2.2; Mn^{2+}, –2.7; Co^{2+}, –2.6; Ni^{2+}, –1.3; Cu^{2+}, –0.9; Zn^{2+}, –2.9; Cd^{2+}, –0.1; Pb^{2+}, –0.7; Ag^+, +1.1; Hg^{2+}, +2.7	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K⁺-53	**K⁺-53** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 30 %)	Li^+, –1.7; Na^+, –2.1; Cs^+, –0.2; NH_4^+, –0.4; Mg^{2+}, –1.6; Ca^{2+}, –2.6; Sr^{2+}, –2.2; Ba^{2+}, –1.0; Ni^{2+}, –1.7; Cu^{2+}, –3.3	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K⁺-54	**K⁺-54** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 35 %)	Li^+, –2.0; Na^+, –1.4; Cs^+, +0.3; NH_4^+, –0.5; Mg^{2+}, –1.5; Ca^{2+}, –2.4; Sr^{2+}, –2.5; Ba^{2+}, –0.3; Ni^{2+}, –1.6; Cu^{2+}, –3.7	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K⁺-55	**K⁺-55** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 44 %)	Li^+, –2.2; Na^+, –1.4; Cs^+, –0.3; NH_4^+, –0.5; Mg^{2+}, –2.9; Ca^{2+}, –1.7; Sr^{2+}, –1.0; Ba^{2+}, +0.5; Mn^{2+}, –1.7; Co^{2+}, –2.7; Ni^{2+}, –2.0; Cu^{2+}, –0.8;	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
		Zn^{2+}, –1.8; Cd^{2+}, +0.6; Pb^{2+}, +1.1; Ag^+, +0.3; Hg^{2+}, +4.8							
K⁺-56	**K⁺-56** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 50 %)	Li^+, –1.9; Na^+, –1.0; Cs^+, +0.6; NH_4^+, –0.4; Mg^{2+}, –2.8; Ca^{2+}, –0.8; Sr^{2+}, –1.3; Ba^{2+}, +0.9; Mn^{2+}, –0.6; Co^{2+}, –2.1; Ni^{2+}, –1.7; Cu^{2+}, 0.0; Zn^{2+}, –0.8; Cd^{2+}, +0.6; Pb^{2+}, +1.1; Ag^+, +2.1; Hg^{2+}, +4.1	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K⁺-57	**K⁺-57** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 44 %)	Li^+, –1.9; Na^+, –1.3; Cs^+, +0.9; NH_4^+, –0.1; Mg^{2+}, –2.6; Ca^{2+}, –1.7; Sr^{2+}, –1.5; Ba^{2+}, –1.3; Mn^{2+}, –2.6; Co^{2+}, –2.2; Ni^{2+}, –1.9; Cu^{2+}, –0.8; Zn^{2+}, –2.8; Cd^{2+}, –0.8; Pb^{2+}, –0.4; Ag^+, +4.6; Hg^{2+}, +4.6	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K⁺-58	**K⁺-58** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 17 %)	Li^+, –3.8; Na, –0.5; Cs^+, +1.3; NH_4^+, –0.4; Mg^{2+}, –2.9; Ca^{2+}, –3.5; Sr^{2+}, –2.8; Ba^{2+}, –2.3; Ni^{2+}, –1.1; Cu^{2+}, –1.2	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K⁺-59	**K⁺-59** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 16 %)	Li^+, –2.2; Na^+, –0.4; Cs^+, +0.4; NH_4^+, –0.3; Mg^{2+}, –3.5; Ca^{2+}, –1.1; Sr^{2+}, –0.7; Ba^{2+}, +0.2; Ni^{2+}, –3.1; Cu^{2+}, –1.2	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K⁺-60	**K⁺-60** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 19 %)	Li^+, –1.7; Na^+, –0.9; Cs^+, +1.4; NH_4^+, +0.2; Mg^{2+}, –1.6; Ca^{2+}, –1.4; Sr^{2+}, –0.6; Ba^{2+}, +0.7; Ni^{2+}, –1.5; Cu^{2+}, –1.6	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
K^+-61	**K^+-61** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 24 %)	Li^+, –1.6; Na^+, –0.9; Cs^+, +0.3; NH_4^+, –0.2; Mg^{2+}, –0.3; Ca^{2+}, –1.8; Sr^{2+}, –1.4; Ba^{2+}, –0.4; Ni^{2+}, –1.9; Cu^{2+}, –1.9	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K^+-62	**K^+-62** (w = 2 %), oNPOE (w = 63.5 %), PVC (w = 34 %), KTpClPB (x_i = 21 %)	Li^+, –2.2; Na^+, –0.8; Cs^+, +0.2; NH_4^+, –0.1; Mg^{2+}, –0.9; Ca^{2+}, –1.1; Sr^{2+}, –1.0; Ba^{2+}, –0.4; Ni^{2+}, –2.4; Cu^{2+}, –1.2	MSM	10^{-3}	0.1	51–56	10^{-4}–10^{-1}	r.o.o.g.	[18]
K^+-63	**K^+-63** (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	Li^+, –4.0; NH_4^+, –1.8; Mg^{2+}, –4.4; Ca^{2+}, –3.6	SSM	0.1	0.1	56.1	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –3.0	FIM	–	0.14				
K^+-64	**K^+-64** (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	Li^+, –1.8; NH_4^+, –1.4; Mg^{2+}, –3.5; Ca^{2+}, –3.2	SSM	0.1	0.1	41.8	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –1.8	FIM	–	0.14				
K^+-65	**K^+-65** (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	Li^+, –1.8; NH_4^+, –1.7; Mg^{2+}, –3.9; Ca^{2+}, –4.0	SSM	0.1	0.1	54.8	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –2.5	FIM	–	0.14				
K^+-66	**K^+-66** (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	Cs^+, –2.3; NH_4^+, –2.1; Mg^{2+}, –2.8; Ca^{2+}, –4.3	SSM	0.1	0.1	55.4	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –3.1	FIM	–	0.14				
K^+-67	**K^+-67** (w = 1 %), DOS (w = 66 %), PVC (w = 32.6 %), NaTPB (w = 0.4 %)	Li^+, –3.5; Cs^+, –2.1; NH_4^+, –1.9; Ca^{2+}, –4.5	SSM	0.1	0.1	56.0	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –2.8	FIM	–	0.14				
	K^+-67 (w = 1 %), PVC (w = 32.6 %), dinonyl adipate (w = 66 %), NaTPB (w = 0.4 %)	NH_4^+, –1.9	SSM	0.1	0.1	56.0 ± 0.7	10^{-4}–10^{-1}	20 ± 2 °C	[19]
		Na^+, –2.9	FIM	–	0.14				
K^+-68	**K^+-68** (w = 1 %), dinonyl adipate (w = 66 %), PVC (w = 32.6 %), NaTPB (x_i = 55 %)	NH_4^+, –2.2	SSM	0.1	0.1	57.6 ± 0.3	10^{-4}–10^{-1}	20 ± 2 °C	[19]
		Na^+, –3.2	FIM	–	0.14				
K^+-69	**K^+-69** (w = 1 %), PVC (w = 32.6 %), dinonyl adipate (w = 66 %), NaTPB (x_i = 120 %)	NH_4^+, –2.2	SSM	0.1	0.1	57.9 ± 0.5	10^{-4}–10^{-1}	20 ± 2 °C	[19]
		Na^+, –3.3	FIM	–	0.14				

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
K⁺-70	**K⁺-70** (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	Li^+, –2.6; NH_4^+, –1.8; Mg^{2+}, –3.3; Ca^{2+}, –3.6	SSM	0.1	0.1	49.9	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –2.7	FIM	–	0.14				
K⁺-71	**K⁺-71** (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	NH_4^+, –1.4; Mg^{2+}, –3.1; Ca^{2+}, –2.7	SSM	0.1	0.1	42.3	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –2.2	FIM	–	0.14				
K⁺-72	**K⁺-72** (w = 2 %), oNPOE (w = 65 %), PVC (w = 33 %)	NH_4^+, –1.5; Mg^{2+}, –3.4; Ca^{2+}, –3.3	SSM	0.1	0.1	40.4	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –2.2	FIM	–	0.14				
K⁺-73	**K⁺-73** (w = 1 %), DOS (w = 66 %), PVC (w = 32.6 %), NaTPB (x_i = 130 %)	Li^+, –3.5; Cs^+, –2.1; NH_4^+, –1.9; Ca^{2+}, –4.6	SSM	0.1	0.1	58.0 ± 3	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –3.7	FIM	–	0.14				
K⁺-74	**K⁺-74** (w = 1 %), DOS (w = 66 %), PVC (w = 32.6 %), NaTPB (x_i = 100 %)	Li^+, –3.2; Cs^+, –1.7; NH_4^+, –1.8; Ca^{2+}, –3.7	SSM	0.1	0.1	55.2 ± 0.8	10^{-4}–10^{-1}	20 ± 2 °C; r.o.o.g.	[19]
		Na^+, –2.3	FIM	–	0.14				
K⁺-75	**K⁺-75** (w = 1.4 %), oNPOE (w = 65.2 %), KTpClPB (x_i = 50 %), PVC (w = 32.8 %)	Li^+, –0.28; Na^+, –0.55; Rb^+, +0.20; Cs^+, +0.88; Mg^{2+}, –1.2; Ca^{2+}, +0.15; Sr^{2+}, +0.45	SSM	0.1	0.1	–	–	FIA; Ag CWE	[22]
		Li^+, –0.35; Na^+, –0.62; Rb^+, +0.15; Cs^+, +0.92; Mg^{2+}, –1.2; Ca^{2+}, +0.20; Sr^{2+}, +0.60	SSM ($E_A = E_B$)	–	0.1				
	K⁺-75 (w = 1.4 %), oNPPE (w = 65.2 %), KTpClPB (x_i = 50 %), PVC (w = 32.8 %)	Li^+, –1.4; Na^+, –1.7; Rb^+, +0.20; Cs^+, +0.82; Mg^{2+}, –2.8; Ca^{2+}, +0.46; Sr^{2+}, +1.2	SSM	0.1	0.1	–	–	FIA; Ag CWE	[22]
		Li^+, –1.4; Na^+, –1.7; Rb^+, +0.20; Cs^+, +0.72; Mg^{2+}, –2.5; Ca^{2+}, +0.46; Sr^{2+}, +0.97	SSM ($E_A = E_B$)		0.1				

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	K^+-75 (w = 1.5 %), oNPOE (w = 65 %), PVC (w = 33 %), KTpClPB (x_i = 21 %)	Li^+, –2.3; Na^+, –2.1; Mg^{2+}, –2.6; Ca^{2+}, –2.6; Sr^{2+}, –1.9	SSM ($E_A = E_B$)	0.1	–	–	–	Ag CWE; 0.14 M NaCl background;	[28]
		Na^+, –2.5	FIM	–	0.140			FIA	
K^+-76	**K^+-76** (w = 1.5 %), oNPOE (w = 65 %), PVC (w = 33 %),	Li^+, –2.2; Na^+, –2.1; Mg^{2+}, –2.2; Ca^{2+}, –1.9; Sr^{2+}, –0.82	SSM ($E_A = E_B$)	–	0.1	–	–	Ag CWE; 0.14 M NaCl background;	[28]
	KTpClPB (x_i = 27 %)	Na^+, –2.5	FIM	–	0.140			FIA	
K^+-77	**K^+-77** (w = 1.5 %), oNPOE (w = 65 %), PVC (w = 33 %),	Li^+, –2.0; Na^+, –1.9; Mg^{2+}, –1.9; Ca^{2+}, –1.2; Sr^{2+}, –0.42	SSM ($E_A = E_B$)	–	0.1	–	–	Ag CWE; 0.14 M NaCl background;	[28]
	KTpClPB (x_i = 24 %)	Na^+, –2.5	FIM	–	0.140			FIA	
K^+-78	**K^+-78** (w = 1.5 %), oNPOE (w = 65 %), PVC (w = 33 %),	Li^+, –1.9; Na^+, –1.7; Mg^{2+}, –1.7; Ca^{2+}, –1.1; Sr^{2+}, –0.41	SSM ($E_A = E_B$)	–	0.1	–	–	Ag CWE; 0.14 M NaCl background;	[28]
	KTpClPB (x_i = 27 %)	Na^+, –2.0	FIM	–	0.140			FIA	
K^+-79	**K^+-79** (w = 1.5 %), oNPOE (w = 65 %), PVC (w = 33 %),	Li^+,+0.1; Na^+, –0.49; Mg^{2+}, –1.0; Ca^{2+}, –0.52; Sr^{2+}, +0.41	SSM ($E_A = E_B$)	–	0.1	–	–	Ag CWE; 0.14 M NaCl background;	[28]
	KTpClPB (x_i = 34 %)	Na^+, –1.0	FIM	–	0.140			FIA	
K^+-80	**K^+-80** (w = 1.5 %), oNPOE (w = 65 %), PVC (w = 33 %),	Li^+, –1.0; Na^+,–0.89; Mg^{2+}, –1.4; Ca^{2+}, –1.0; Sr^{2+}, +0.079	SSM ($E_A = E_B$)	–	0.1	–	–	Ag CWE; 0.14 M NaCl background;	[28]
	KTpClPB (x_i = 31 %)	Na^+, –1.3	FIM	–	0.140			FIA	
K^+-81	**K^+-81** ($w \approx$ 1 %), DOS (w = 61–66 %), PVC (w = 33–38 %)	Na^+, –1.90	FIM	–	0.1	57.7	–		[29]
	K^+-81 ($w \approx$ 1 %), KTPB (x_i < 100 %), DOS (w = 61–66 %), PVC (w = 33–38 %)	Na^+, –2.15	FIM	–	0.1	54.3	–		[29]
K^+-82	**K^+-82** ($w \approx$ 1 %), PVC (w = 33–38 %), DOS (w = 61–66 %)	Na^+, –2.66	FIM	–	0.1	50.0	–		[29]
	K^+-82 ($w \approx$ 1 %), KTPB (x_i < 100 %),	Na^+, –3.05	FIM	–	0.1	53.5	–		[29]

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	DOS (w = 61–66 %), PVC (w = 33–38 %)								
K^+-83	**K^+-83** ($w \approx 1$ %), PVC (w = 33–38 %), DOS (w = 61–66 %)	Na^+, –2.32	FIM	–	0.1	54.2	–		[29]
	K^+-83 ($w \approx 1$ %), DOS (w = 61–66 %), KTPB (x_i < 100 %), PVC (w = 33–38 %)	Na^+, –2.19	FIM	–	0.1	50.0	–		[29]
	K^+-83 ($w \approx 1$ %), PVC (w = 33–38 %), DOS (w = 61–66 %), KTpClPB (x_i < 100 %)	Na^+, –1.76	FIM	–	0.1	52.5	–		[29]
K^+-84	**K^+-84** ($w \approx 1$ %), PVC (w = 33–38 %), KTpClPB or KTPB (x_i < 100 %), DOS (w = 61–66 %)	Na^+, –2.25	FIM	–	0.1	53.6	–		[29]
K^+-85	**K^+-85** ($w \approx 1$ %), PVC (w = 33–38 %), DOS (w = 61–66 %), KTpClPB or KTPB (x_i < 100 %)	Na^+, –2.25	FIM	–	0.1	48.7	–		[29]
K^+-86	**K^+-87** ($w \approx 1$ %), DOS (w = 61–66 %), PVC (w = 33–38 %), KTpClPB (x_i = 100 %)	Na^+, –2.16	FIM	–	0.1	52.8	–		[29]
K^+-87	**K^+-87** ($w \approx 1$ %), DOS (w = 61–66 %), PVC (w = 33–38 %)	Na^+, –1.23	FIM	–	0.1	51.5	–		[29]
K^+-88	**K^+-88** ($w \approx 1$ %), DOS (w = 61–66 %), PVC (w = 33–38 %)	Na^+, –1.40	FIM	–	0.1	52.5	–		[29]
K^+-89	**K^+-89** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.9; Na^+, –3.5; Rb^+, –0.7; Cs^+, –2.2; NH_4^+, –1.8; Mg^{2+}, –4.0; Ca^{2+}, –3.6	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-90	**K^+-90** (w = 6.7 %), oNPOE (w = 63 %),	Li^+, –2.4; Na^+, –2.5; Rb^+, +1.2; Cs^+, +0.8;	MSM	–	–	–	–	r.o.o.g.	[30]

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	PVC (w = 30.3 %)	NH_4^+, –1.0; Mg^{2+}, –3.6; Ca^{2+}, –3.2							
K^+-91	**K^+-91** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –3.0; Na^+, –3.5; Rb^+, –0.9; Cs^+, –2.1; NH_4^+, –1.9; Mg^{2+}, –3.6; Ca^{2+}, –3.5	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-92	**K^+-92** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.4; Na^+, -2.5; Rb^+, +1.3; Cs^+, +1.5; NH_4^+, –1.0; Mg^{2+}, –3.8; Ca^{2+}, –3.5	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-93	**K^+-93** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.5; Na^+, –2.2; Rb^+, +1.0; Cs^+, +2.3; NH_4^+, –1.0; Mg^{2+}, –3.4; Ca^{2+}, –3.3	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-94	**K^+-94** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –3.0; Na^+, –3.6; Rb^+, –1.0; Cs^+, –1.9; NH_4^+, –2.0; Mg^{2+}, –3.8; Ca^{2+}, –3.8	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-95	**K^+-95** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.7; Na^+, –3.6; Rb^+, –0.9; Cs^+, –2.2; NH_4^+, –1.8; Mg^{2+}, –3.9; Ca^{2+}, –3.6	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-96	**K^+-96** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.8; Na^+, –3.7; Rb^+, –1.0; Cs^+, –2.2; NH_4^+, –1.8; Mg^{2+}, –3.9; Ca^{2+}, –3.6	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-97	**K^+-97** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.4; Na^+, –2.5; Rb^+, +1.3; Cs^+, +0.9; NH_4^+, –1.0; Mg^{2+}, –3.8; Ca^{2+}, –3.5	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-98	**K^+-98** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.8; Na^+, –3.5; Rb^+, –0.8; Cs^+, –2.2; NH_4^+, –1.8; Mg^{2+}, –3.8; Ca^{2+}, –3.6	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-99	**K^+-99** (w = 6.7 %),	Li^+, –2.5; Na^+, –2.5;	MSM	–	–	–	–	r.o.o.g.	[30]

Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	oNPOE (w = 63 %), PVC (w = 30.3 %)	Rb^+, +1.2; Cs^+, +1.4; NH_4^+, –1.1; Mg^{2+}, –3.5; Ca^{2+}, –3.1							
K^+-100	**K^+-100** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.2; Na^+, –3.5; Rb^+, –0.8; Cs^+, –2.0; NH_4^+, –1.9; Mg^{2+}, –3.3; Ca^{2+}, –3.2	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-101	**K^+-101** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.4; Na^+, –2.7; Rb^+, –0.8; Cs^+, –1.4; NH_4^+, –1.7; Mg^{2+}, –3.5; Ca^{2+}, –2.7	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-102	**K^+-102** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.2; Na^+, –2.6; Rb^+, +0.8; Cs^+, +0.8; NH_4^+, –1.2; Mg^{2+}, –4.0; Ca^{2+}, –4.1	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-103	**K^+-103** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.3; Na^+, –3.0; Rb^+, –1.2; Cs^+, –1.7; NH_4^+, –1.9; Mg^{2+}, –3.4; Ca^{2+}, –2.7	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-104	**K^+-104** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.4; Na^+, –2.2; Rb^+, +0.5; Cs^+, +1.1; NH_4^+, –1.4; Mg^{2+}, –4.0; Ca^{2+}, –3.8	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-105	**K^+-105** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.6; Na^+, –3.1; Rb^+, –1.1; Cs^+, –2.0; NH_4^+, –1.9; Mg^{2+}, –3.6; Ca^{2+}, –2.7	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-106	**K^+-106** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.2; Na^+, –3.3; Rb^+, –0.9; Cs^+, –2.2; NH_4^+, –2.0; Mg^{2+}, –3.3; Ca^{2+}, –3.4	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-107	**K^+-107** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.1; Na^+, –2.6; Rb^+, +1.0; Cs^+, +0.5; NH_4^+, –1.3; Mg^{2+}, –3.6; Ca^{2+}, –3.0	MSM	–	–	–	–	r.o.o.g.	[30]

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Table 4: K^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{K^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
K^+-108	**K^+-108** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.2; Na^+, –2.1; Rb^+, +0.8; Cs^+, +1.3; NH_4^+, –1.3; Mg^{2+}, –3.7; Ca^{2+}, –3.3	MSM	–	–	–	–	r.o.o.g.	[30]
K^+-109	**K^+-109** (w = 6.7 %), oNPOE (w = 63 %), PVC (w = 30.3 %)	Li^+, –2.9; Na^+, –2.1; Rb^+, +0.7; Cs^+, +1.3; NH_4^+, –1.1; Mg^{2+}, –3.5; Ca^{2+}, –3.9	MSM	–	–	–	–	r.o.o.g.	[30]

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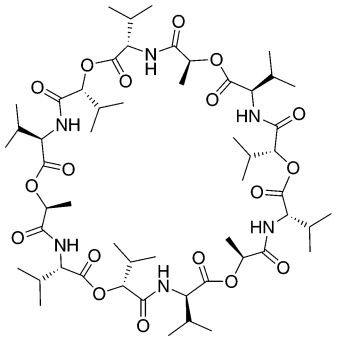
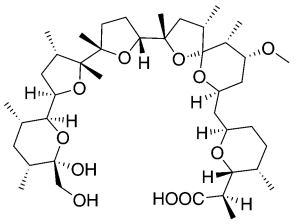
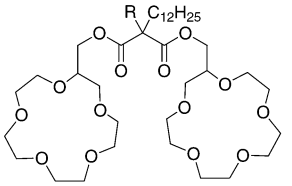
Table 4: K^+-Selective Electrodes (*Continued*)



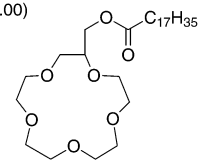
K^+-1 (valinomycin, M_r = 1111.33)



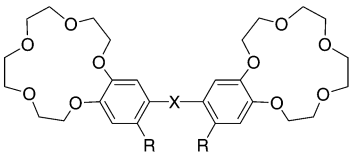
K^+-2 (nigericin, M_r = 739.00)



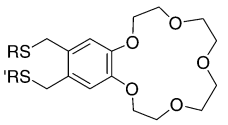
K^+-5 (M_r = 750.96): R=Me
K^+-11 (M_r = 736.94): R=H



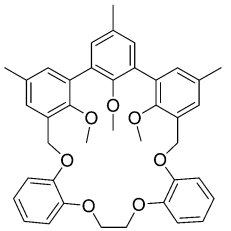
K^+-3 (M_r = 516.76)



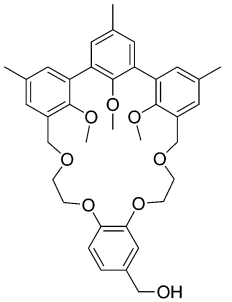
K^+-4 (M_r = 720.81): X = -$CH_2OCO(CH_2)_5COOCH_2$-, R = H
K^+-6 (M_r = 578.62): X = -N=N(O)-, R = H
K^+-7 (M_r = 650.74): X = -$COCH_2SCH_2CO$-, R = H
K^+-8 (BME 44, M_r = 967.07): X = -$NHCOOCH_2C(CH_3)(C_{12}H_{25})CH_2OCONH$-, R = NO_2
K^+-34 (M_r = 562.61): X = -CO- , R=H
K^+-35 (M_r = 561.63): X = -CH=N- , R=H
K^+-36 (M_r = 563.64): X = -CH_2NH- , R=H
K^+-63 (M_r = 810.80): X= -$CH_2OCO(CH_2)_5COOCH_2$-, R=NO_2
K^+-64 (M_r = 756.76): X = -$CH_2(OCH_2CH_2)_2OCH_2$- , R=H
K^+-65 (M_r = 666.76): X = -$CH_2(OCH_2CH_2)_2OCH_2$- , R=NO_2



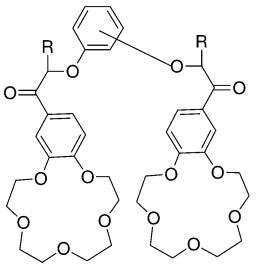
K^+-33 (M_r = 612.80): R = 2-Naphthyl-



K^+-9 (M_r = 632.75)



K^+-10 (M_r = 614.73)



K^+-12 (M_r = 726.77): R =H , *m*-
K^+-13 (M_r = 726.77): R =H , *p*-
K^+-14 (M_r = 754.83): R =CH_3 , *o*-
K^+-15 (M_r = 754.83): R =CH_3 , *p*-

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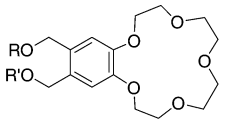
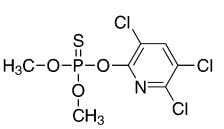
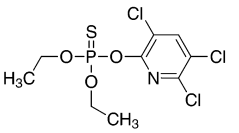
Table 4: K^+-Selective Electrodes (*Continued*)



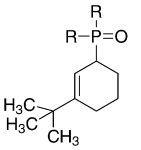
K^+-16 (M_r = 412.44): R =R'= $COCH_3$
K^+-17 (M_r = 524.66): R =R'= $CO(CH_2)_4CH_3$
K^+-18 (M_r = 692.97): R =R'= $CO(CH_2)_{10}CH_3$
K^+-19 (M_r = 833.24): R =R'= $CO(CH_2)_{15}CH_3$
K^+-20 (M_r = 536.58): R =R'= COC_6H_5
K^+-21 (M_r = 564.63): R =R'= $COCH_2C_6H_5$
K^+-22 (M_r = 596.63): R =R'= $COCH_2OC_6H_5$
K^+-23 (M_r = 538.55): R =R'= CO(3-Pyridyl)
K^+-24 (M_r = 752.42): R =R'= CO(Ferrocenyl)
K^+-25 (M_r = 540.39): R = H, R'= CO(Ferrocenyl)
K^+-26 (M_r = 384.47): R =R'= CH_2CH_3
K^+-27 (M_r = 665.00): R =R'= $(CH_2)_{11}CH_3$
K^+-28 (M_r = 480.56): R =R'= C_6H_5
K^+-29 (M_r = 570.55): R =R'= 4-Nitrophenyl-
K^+-30 (M_r = 632.75): R =R'= 2-Biphenyl-
K^+-31 (M_r = 580.68): R =R'= 1-Naphthyl-
K^+-32 (M_r = 580.68): R =R'= 2-Naphthyl-



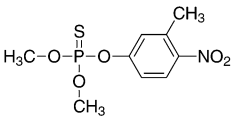
K^+-37 (M_r = 322.53)



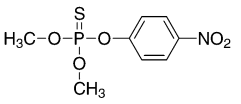
K^+-38 (M_r = 350.58)



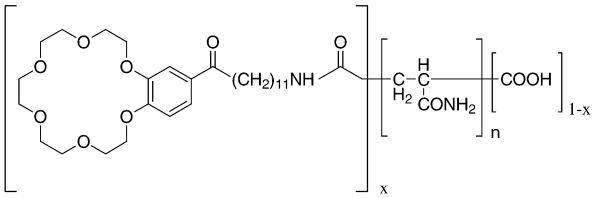
K^+-41 (M_r = 298.45): R = $-C_4H_9$
K^+-42 (M_r = 407.32): R = $-C_6H_4Cl$
K^+-43 (M_r = 338.43): R = $-C_6H_5$
K^+-44 (M_r = 366.48): R = $-C_6H_4CH_3$



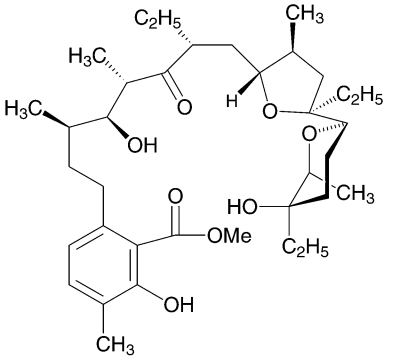
K^+-39 (M_r = 277.23)



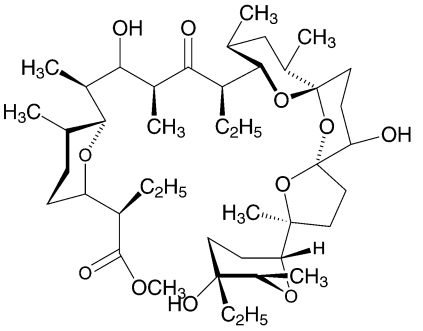
K^+-40 (M_r = 263.20)



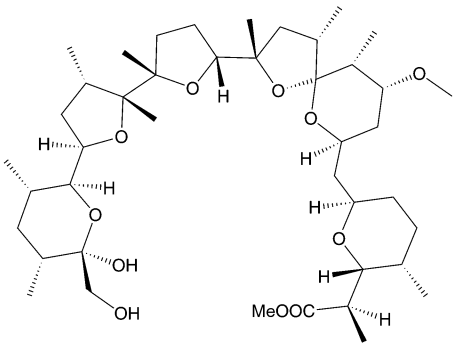
K^+-45 (x = 0.2)
K^+-46 (x = 0.7)



K^+-47 ((Lasalocid methyl ester, M_r = 618.85)

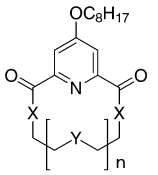


K^+-48 (Salinomycin methyl ester, M_r = 767.05)

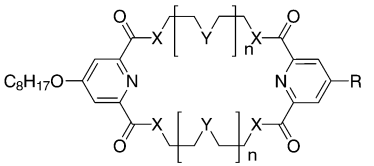


K^+-49 (M_r = 753.02) (Nigericin methyl ester)

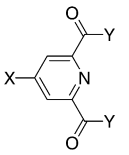
Table 4: K^+-Selective Electrodes (*Continued*)



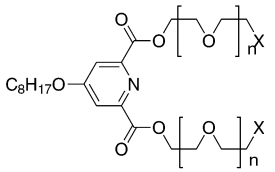
K^+-50 (M_r = 441.60): X=O, Y=S, n=2
K^+-51 (M_r = 501.71): X=O, Y=S, n=3
K^+-52 (M_r = 485.65): X=S, Y=O, n=3



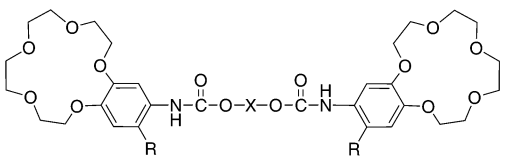
K^+-53 (M_r = 602.64): X=O, Y=O, n=1, R=H
K^+-54 (M_r = 690.74): X=O, Y=O, n=2, R=H
K^+-55 (M_r = 883.20): X=O, Y=S, n=2, R=OC_8H_{17}
K^+-56 (M_r =1003.43): X=O, Y=S, n=3, R=OC_8H_{17}
K^+-57 (M_r = 883.20): X=S, Y=O, n=2, R=OC_8H_{17}



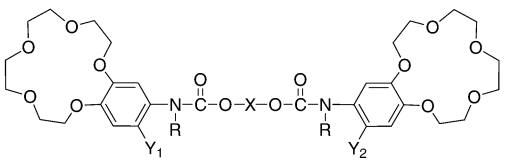
K^+-58 (M_r = 295.33): X=OC_8H_{17}, Y=OH
K^+-59 (M_r = 323.39): X=OC_8H_{17}, Y=OMe



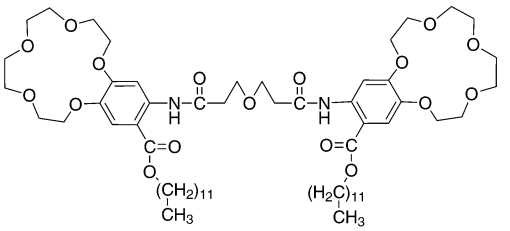
K^+-60 (M_r = 383.44) n=0, X=OH
K^+-61 (M_r = 471.55) n=1, X=OH
K^+-62 (M_r = 411.49) n=0, X=OMe



K^+-66 (BME 15, M_r = 830.81): X = -$CH_2CH_2SCH_2CH_2$-, R = NO_2
K^+-67 (BME 171, M_r = 995.13): X = -$CH_2(CH_2)_{16}CH_2$-, R = NO_2
K^+-68 (BME 54, M_r = 812.78): X = -$CH_2C(CH_3)_2CH_2$-, R = NO_2
K^+-69 (BME 02/85, M_r = 1023.18): X = -$CH_2C(CH_3)((CH_2)_{15}$-$CH_3)CH_2$-, R = NO_2



K^+-70 (BME 107, M_r = 785.82): R =H, Y_1=NO_2, Y_2=H, X= -$CH_2CH_2SCH_2CH_2$-
K^+-71 (BME 19-Me, M_r = 858.87): R =CH_3, Y_1=NO_2, Y_2=NO_2, X= -$CH_2CH_2SCH_2CH_2$-
K^+-72 (BME 40, M_r = 740.82): R =H, Y_1=H, Y_2=H, X= -$CH_2CH_2SCH_2CH_2$-



K^+-73 (BME 137, M_r = 1117.42)

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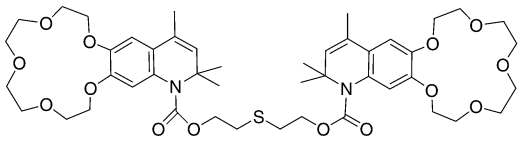
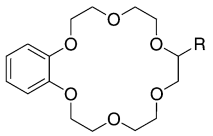
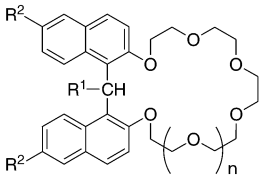
Table 4: K^+-Selective Electrodes (*Continued*)

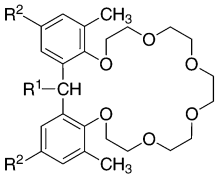


K^+-74 (BME 139, M_r = 901.08)



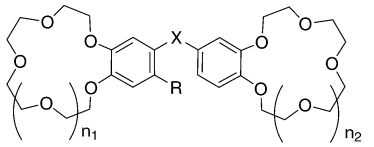
K^+-75 (M_r = 312.36): R = H
K^+-76 (M_r = 342.39): R = CH_2OH
K^+-77 (M_r = 356.41): R = CH_2OCH_3
K^+-78 (M_r = 400.47): R = $CH_2OCH_2CH_2OCH_3$
K^+-79 (M_r = 444.52): R = $CH_2O(CH_2CH_2O)_2CH_3$
K^+-80 (M_r = 488.57): R = $CH_2O(CH_2CH_2O)_3CH_3$





K^+-87 (M_r = 584.75): R^1 = Naphthyl, R^2= CH_3
K^+-88 (M_r = 506.64): R^1 = Phenyl, R^2= H

K^+-81 (M_r = 502.61): R^1 = H, R^2= H, n =1
K^+-82 (M_r = 718.97): R^1 = 2-CH_3-5-CH_3-C_6H_4, R^2= $C(CH_3)_3$, n =1
K^+-83 (M_r = 781.00): R^1 = 3-OCH_3-4-OCH_3-5-OCH_3-C_6H_3, R^2= $C(CH_3)_3$, n =1
K^+-84 (M_r = 803.86): R^1 = 2-Cl-6-Cl-C_6H_4, R^2= $C(CH_3)_3$, n =2
K^+-85 (M_r = 825.05): R^1 = 3-OCH_3-4-OCH_3-5-OCH_3-C_6H_3, R^2= $C(CH_3)_3$, n =2
K^+-86 (M_r = 759.81): R^1 = 2-Cl-6-Cl-C_6H_4, R^2= $C(CH_3)_3$, n =1



K^+-89 (M_r = 592.68): n_1 = n_2 = 1, X= $CH(OH)CH_2CH_2$, R=H
K^+-90 (M_r = 636.74): n_1 = 2 , n_2 = 1, X= $CH(OH)CH_2CH_2$, R=H
K^+-91 (M_r = 576.68): n_1 = n_2 = 1, X= $(CH_2)_3$, R=H
K^+-92 (M_r = 620.74): n_1 = 2 , n_2 = 1, X= $(CH_2)_3$, R=H
K^+-93 (M_r = 664.79): n_1 = n_2 = 2, X= $(CH_2)_3$, R=H
K^+-94 (M_r = 704.90): n_1 = n_2 = 1, X= $CH(O\text{-}n\text{-}C_8H_{17})CH_2CH_2$, R=H
K^+-95 (M_r =761.00): n_1 = n_2 = 1, X= $CH(O\text{-}n\text{-}C_{12}H_{25})CH_2CH_2$, R=H
K^+-96 (M_r = 817.11): n_1 = n_2 = 1, X= $CH(O\text{-}n\text{-}C_{16}H_{33})CH_2CH_2$, R=H
K^+-97 (M_r = 748.95): n_1 = 2 , n_2 = 1, X= $CH(O\text{-}n\text{-}C_8H_{17})CH_2CH_2$, R=H
K^+-98 (M_r = 604.74): n_1 = n_2 = 1, X= $(CH_2)_3$, R=C_2H_5
K^+-99 (M_r = 648.79): n_1 = 2 , n_2 = 1, X= $(CH_2)_3$, R=C_2H_5
K^+-100 (M_r = 688.90): n_1 = n_2 = 1, X= $(CH_2)_3$, R=C_8H_{17}
K^+-101 (M_r = 632.70): n_1 = n_2 = 1, X= $CO(CH_2)_3CO$, R=H
K^+-102 (M_r = 676.76): n_1 = 1 , n_2 = 2, X= $CO(CH_2)_3CO$, R=H
K^+-103 (M_r = 720.81): n_1 = n_2 = 2, X= $CO(CH_2)_3CO$, R=H
K^+-104 (M_r = 833.02): n_1 = n_2 = 2, X= $CO(CH_2)_{11}CO$, R=H
K^+-105 (M_r = 604.74): n_1 = n_2 = 1, X= $(CH_2)_5$, R=H
K^+-106 (M_r = 716.95): n_1 = n_2 = 1, X= $(CH_2)_{13}$, R=H
K^+-107 (M_r = 648.79): n_1 = 1 , n_2 = 2, X= $(CH_2)_5$, R=H
K^+-108 (M_r = 692.84): n_1 = n_2 = 2, X= $(CH_2)_5$, R=H
K^+-109 (M_r = 805.06): n_1 = n_2 = 2, X= $(CH_2)_{13}$, R=H