Table 6: Cs^+-Selective Electrodes

ionophore	membrane composition	$\lg K_{Cs^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
Cs⁺-1	**Cs⁺-1** (w = 3.2–3.8 %), oNPOE ($w \approx$ 64 %), PVC ($w \approx$ 32 %)	Na^+, –3.0; K^+, –1.0; Rb^+, –1.0; NH_4^+, –2.0	FIM	–	–	51	10^{-3} –10^{-1}	25 ± 0.1°C; CWE	[1]
Cs⁺-2	**Cs⁺-2** (w = 1.4 %), oNPOE ($w \approx$ 65 %), KTpClPB (x_i = 50 %), PVC ($w \approx$ 33 %)	Li^+, –2.60; Na^+, –2.23; K^+, –0.77; Rb^+, –0.51; Mg^{2+}, –3.03; Ca^{2+}, –2.80; Sr^{2+}, –2.22	SSM	0.1	0.1	–	–	CWE	[2]
		Li^+, –2.80; Na^+, –2.41; K^+, –0.72; Rb^+, –0.52; Ca^{2+}, –3.05; Sr^{2+}, –2.18	SSM ($E_A = E_B$)	–	0.1			14 mM NaCl background	
	Cs⁺-2 (w = 1.4 %), o-nitrophenyl pentyl ether ($w \approx$ 65 %), KTpClPB (x_i = 50 %), PVC ($w \approx$ 33 %)	Li^+, <–3.70; Na^+, –2.70; K^+, –0.46; Rb^+, 0.00; Mg^{2+}, –3.70; Ca^{2+}, –3.66; Sr^{2+}, <–3.70	SSM	0.1	0.1	–	–	CWE;	[2]
		Li^+, –3.37; Na^+, –2.60; K^+, –0.46; Rb^+, 0.00; Ca^{2+}, <–3.70; Sr^{2+}, –3.48	SSM ($E_A = E_B$)	–	0.1			14 mM NaCl background	
Cs⁺-3	**Cs⁺-3** (w = 1.5 %), oNPOE (w = 65 %), KTpClPB (x_i = 22 %), PVC (w = 33 %)	Li^+, –2.4; Na^+, –2.0; K^+, –0.9; Rb^+, –0.5; H^+, +0.7; Mg^{2+}, –3.2; Ca^{2+}, –2.9; Sr^{2+}, –2.1	SSM	0.1	0.1; H^+, 0.1, 0.002	51	–	CWE; 14 mM NaCl background; r.o.o.g.	[3]
	Cs⁺-3 (w = 1.48 %), oNPOE (w = 64.35 %), KTpClPB (x_i = 22 %), TOPO (w = 0.99 %), PVC (w = 32.67 %)	Li^+, –0.0; Na^+, –0.5; K^+, –0.5; Rb^+, –0.5; H^+, +1.6; Mg^{2+}, –0.1; Ca^{2+}, +0.5; Sr^{2+}, –0.1	SSM	0.1	0.1; H^+, 0.1, 0.002	29	–	CWE; 14 mM NaCl background; r.o.o.g.	[3]
	Cs⁺-3 (w = 1.5 %), o-nitrophenyl pentyl ether (w = 65 %), KTpClPB (x_i = 21.7 %), PVC (w = 33 %)	Li^+, –0.6; Na^+, –0.6; K^+, –0.5; Rb^+, –0.4; H^+, +1.8; Mg^{2+}, –0.9; Ca^{2+}, –0.8; Sr^{2+}, –0.8	SSM	0.1	0.1; H^+, 0.1, 0.002	23	–	CWE; 14 mM NaCl background; r.o.o.g.	[3]
	Cs⁺-3 (w = 1.48 %), PVC (w = 32.67 %), KTpClPB (x_i = 22 %), TOPO (w = 0.99 %), o-nitrophenyl pentyl ether (w = 64.3 %)	Li^+, –0.2; Na^+, –0.1; K^+, –0.3; Rb^+, –0.1; H^+, +6.5; Mg^{2+}, +0.4; Ca^{2+}, +0.6; Sr^{2+}, +0.2	SSM	0.1	0.1; H^+, 0.1, 0.002	25	–	CWE; 14 mM NaCl background; r.o.o.g.	[3]
	Cs⁺-3 (w = 1.44 %), oNPOE (w = 62.44 %), KTpClPB (x_i = 200 %), PVC (w = 31.70 %)	Li^+, –3.0; Na^+, –2.5; K^+, –1.3; Rb^+, –0.6; H^+, –3.3; Mg^{2+}, –3.1; Ca^{2+}, –2.8; Sr^{2+}, –2.7	SSM	0.1	0.1; H^+, 0.1, 0.002	55	–	CWE; 14 mM NaCl background; r.o.o.g.	[3]

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Table 6: Cs^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{Cs^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	Cs^+-3 (w = 1.43 %), oNPOE (w = 61.84 %), KTpClPB (x_i = 200 %), TOPO (w = 0.95 %), PVC (w = 31.40 %)	Li^+, –3.0; Na^+, –2.6; K^+, –1.3; Rb^+, –0.6; H^+, –2.5; Mg^{2+}, –3.1; Ca^{2+}, –2.9; Sr^{2+}, –2.9	SSM	0.1	0.1; H^+, 0.1, 0.002	55	–	CWE; 14 mM NaCl background; r.o.o.g.	[3]
	Cs^+-3 (w = 1.51 %), oNPOE (w = 65.32 %), PVC (w = 33.17 %)	Li^+, –0.3; Na^+, –0.5; K^+, –0.3; Rb^+, –0.2; H^+, +1.2; Mg^{2+}, –0.2; Ca^{2+}, –0.7; Sr^{2+}, –0.1	SSM	0.1	0.1; H^+, 0.1, 0.002	6.6	–	CWE; 14 mM NaCl background; r.o.o.g.	[3]
	Cs^+-3 (w = 1.49 %), oNPOE (w = 64.68 %), TOPO (w = 0.99 %), PVC (w = 32.84 %)	Li^+, –0.5; Na^+, –0.5; K^+, –0.5; Rb^+, –0.1; Mg^{2+}, –0.1; Ca^{2+}, +0.5; Sr^{2+}, +0.2	SSM	0.1	0.1	32	–	CWE; 14 mM NaCl background; r.o.o.g.	[3]
Cs^+-4	**Cs^+-4** (w = 0.4 %), oNPOE (w = 66.4 %), PVC (w = 33.2 %)	Li^+, –3.29; Na^+, –2.13; K^+, –0.66; Rb^+, –1.24; Mg^{2+}, –2.80; Ca^{2+}, –3.56	SSM	0.1	0.1	54.0	–		[4]
		H^+, –1.95	FIM	–	0.01				
		NH_4^+, –1.87		–	0.1				
	Cs^+-4 ($w \approx$ 0.4 %), oNPOE ($w \approx$ 66.3 %), KTpClPB (x_i = 62 %), PVC ($w \approx$ 33.2 %)	Li^+, –3.25; Na^+, –2.05; K^+, –0.79; Rb^+, –0.99; Mg^{2+}, –3.02; Ca^{2+}, –3.52	SSM	0.1	0.1	55.7	–		[4]
		H^+, –3.04	FIM	–	0.01				
		NH_4^+, –2.06		–	0.1				
Cs^+-5	**Cs^+-5** (w = 0.4 %), oNPOE (w = 66.4 %), PVC (w = 33.2 %)	Li^+, –4.20; Na^+, –3.87; K^+, –2.68; Rb^+, –1.85; Mg^{2+}, –4.04; Ca^{2+}, –3.39	SSM	0.1	0.1	51.3	–		[4]
		H^+, –3.71	FIM	–	0.01				
		NH_4^+, –2.83		–	0.1				
	Cs^+-5 ($w \approx$ 0.4 %), oNPOE ($w \approx$ 66.4 %), KTpClPB (x_i = 10 %), PVC ($w \approx$ 33.2 %)	Li^+, –4.45; Na^+, –3.73; K^+, –2.53; Rb^+, –1.52; Mg^{2+}, –3.92; Ca^{2+}, –3.97	SSM	0.1	0.1	55.3	–		[4]
		H^+, –2.70	FIM	–	0.01				
		NH_4^+, –2.75		–	0.1				
	Cs^+-5 ($w \approx$ 0.4 %), oNPOE ($w \approx$ 66.4 %), KTpClPB (x_i = 25 %),	Li^+, –3.92; Na^+, –3.57; K^+, –2.49; Rb^+, –1.78; Mg^{2+}, –3.85; Ca^{2+}, –3.44	SSM	0.1	0.1	54.0	–		[4]

Table 6: Cs^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{Cs^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	PVC ($w \approx 33.2$ %)	H^+, –3.02	FIM	–	0.01				
		NH_4^+, –2.40		–	0.1				
Cs⁺-6	**Cs⁺-6** (w = 6.7 %), oNPOE (w = 63.0 %), PVC (w = 30.3 %)	K^+, –2.3	MSM	–	–	–	–		[5]
Cs⁺-7	**Cs⁺-7** (w = 4.5 %), DDP (w = 63.2 %), KTpClPB (x_i = 5.8 %), PVC (w = 32.0 %)	Li^+, –1.42; Na^+, –0.78; K^+, +0.04; Rb^+, +0.28; NH_4^+, –0.66; Mg^{2+}, –2.27; Ca^{2+}, –2.21; Sr^{2+}, –2.09; Ba^{2+}, –2.40	SSM	0.1	0.1	52–58	10^{-4}–10^{-1}		[6]
Cs⁺-8	**Cs⁺-8** (w = 4.5 %), DDP (w = 63.2 %), KTpClPB (x_i = 6.4 %), PVC (w = 32.0 %)	Li^+, –2.22; Na^+, –0.33; K^+, –0.39; Rb^+, +0.17; NH_4^+, –0.91; Mg^{2+}, –2.46; Ca^{2+}, –0.91; Sr^{2+}, –0.95; Ba^{2+}, –1.52	SSM	0.1	0.1	52–58	10^{-4}–10^{-1}		[6]
Cs⁺-9	**Cs⁺-9** (w = 4.5 %), DDP (w = 63.2 %), KTpClPB (x_i = 7.0 %), PVC (w = 32.0 %)	Li^+, –2.40; Na^+, –1.38; K^+, –0.26; Rb^+, +0.26; NH_4^+, –1.02; Mg^{2+}, –2.92; Ca^{2+}, –3.04; Sr^{2+}, –2.92; Ba^{2+}, –2.77	SSM	0.1	0.1	52–58	10^{-4}–10^{-1}		[6]
Cs⁺-10	**Cs⁺-10** (w = 4.5 %), DDP (w = 63.2 %), KTpClPB (x_i = 6.4 %), PVC (w = 32.0 %)	Li^+, –2.15; Na^+, –2.40; K^+, –0.97; Rb^+, +0.43; NH_4^+, –1.11; Mg^{2+}, –4; Ca^{2+}, –3.04; Sr^{2+}, –5; Ba^{2+}, –5	SSM	0.1	0.1	52–58	10^{-4}–10^{-1}		[6]
Cs⁺-11	**Cs⁺-11** (w = 4.5 %), DDP (w = 63.2 %), KTpClPB (x_i = 7.0 %), PVC (w = 32.0 %)	Li^+, –2.15; Na^+, –1.17; K^+, –0.33; Rb^+, +0.10; NH_4^+, –0.98; Mg^{2+}, –3.04; Ca^{2+}, –3.15; Sr^{2+}, –3.52; Ba^{2+}, –3.10	SSM	0.1	0.1	52–58	10^{-4}–10^{-1}		[6]
Cs⁺-12	**Cs⁺-12** (w = 4.5 %), DDP (w = 63.2 %), KTpClPB (x_i = 6.4 %), PVC (w = 32.0 %)	Li^+, –1.55; Na^+, –0.86; K^+, +0.16; Rb^+, +0.05; NH_4^+, –0.60; Mg^{2+}, –2.29; Ca^{2+}, –2.49; Sr^{2+}, –2.36; Ba^{2+}, –2.06	SSM	0.1	0.1	52–58	10^{-4}–10^{-1}		[6]
Cs⁺-13	**Cs⁺-13** (w = 4.5 %), DDP (w = 63.2 %), KTpClPB (x_i = 7.0 %), PVC (w = 32.0 %)	Li^+, –1.80; Na^+, –0.98; K^+, –0.04; Rb^+, –0.01; NH_4^+, –0.65; Mg^{2+}, –1.82; Ca^{2+}, –2.21; Sr^{2+}, –1.91; Ba^{2+}, –2.04	SSM	0.1	0.1	52–58	10^{-4}–10^{-1}		[6]
Cs⁺-14	**Cs⁺-14** (w = 0.5 %), oNPOE (w = 67.1 %), KTpClPB (x_i = 36 %), PVC (w = 32.2 %)	Li^+, –3.54; Na^+, –3.10; K^+, –2.05; Rb^+, –0.91; NH_4^+, –1.96; Mg^{2+}, –5.4; Ca^{2+}, –5.2; Sr^{2+}, –5.2; Ba^{2+}, –5.0	FIM	–	0.1	60.9	–	$c_{dl} = 10^{-6.0}$ M	[7]
		H^+, –3.86			1				

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Table 6: Cs^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{Cs^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	Cs^+-14 (w = 0.5 %), DBS (w = 67.1 %), KTpClPB (x_i = 36 %), PVC (w = 32.2 %)	Li^+, –3.51; Na^+, –2.95; K^+, –2.06; Rb^+, –0.90; NH_4^+, –1.91; Mg^{2+}, –5.1; Ca^{2+}, –5.43; Sr^{2+}, –5.37; Ba^{2+}, –5.42	FIM	–	0.1	61.1	–	$c_{dl} = 10^{-6.1}$ M	[7]
		H^+, –3.35			1				
Cs^+-15	**Cs^+-15** (w = 0.5 %), oNPOE (w = 67.1 %), KTpClPB (x_i = 38.8 %), PVC (w = 32.2 %)	Li^+, –4.81; Na^+, –4.46; K^+, –2.18; Rb^+, –0.89; NH_4^+, –1.98; Mg^{2+}, –5.5; Ca^{2+}, –5.4; Sr^{2+}, –5.3; Ba^{2+}, –5.2	FIM	–	0.1	58.2	–	$c_{dl} = 10^{-6.3}$ M	[7]
		H^+, –4.32			1				
	Cs^+-15 (w = 0.5 %), DBS (w = 67.1 %), KTpClPB (x_i = 38.8 %), PVC (w = 32.2 %)	Li^+, –5.03; Na^+, –4.36; K^+, –2.14; Rb^+, –0.81; NH_4^+, –1.86; Mg^{2+}, –5.32; Ca^{2+}, –5.56; Sr^{2+}, –5.5; Ba^{2+}, –5.1	FIM	–	0.1	58.2	–	$c_{dl} = 10^{-6.33}$ M	[7]
		H^+, –4.32			1				
	Cs^+-15 (w = 1 %), BEHS (w = 65.5 %), KTFPB (x_i = 50 %), PVC (w = 33 %)	Na^+, –3.3 K^+, –2.0 NH_4^+, –1.9 Ca^{2+}, –3.3	FIM	–	0.1	57 ± 2† 40 ± 2†† 39 ± 2††† 57 ± 2††††	–	ISFET; pH = 4	[8]
Cs^+-16	**Cs^+-16** (w = 0.5 %), oNPOE (w = 67.1 %), KTpClPB (x_i = 38.8 %), PVC (w = 32.2 %)	Li^+, –3.81; Na^+, –2.47; K^+, –0.74; Rb^+, –0.15; NH_4^+, –0.82; Mg^{2+}, –5.0; Ca^{2+}, –4.8; Sr^{2+}, –4.7; Ba^{2+}, –4.6	FIM	–	0.1	58.2	–	$c_{dl} = 10^{-5.4}$ M	[7]
		H^+, –2.88			1				
	Cs^+-16 (w = 0.5 %), DBS (w = 67.1 %), KTpClPB (x_i = 38.8 %), PVC (w = 32.2 %)	Li^+, –2.98; Na^+, –2.09; K^+, –0.71; Rb^+, –0.1; NH_4^+, –0.76; Mg^{2+}, –4.60; Ca^{2+}, –4.6; Sr^{2+}, –4.7; Ba^{2+}, –4.5	FIM	–	0.1	60	–	$c_{dl} = 10^{-5.3}$ M	[7]
		H^+, –2.28			1				
Cs^+-17	**Cs^+-17** (w = 0.5 %), oNPOE (w = 67.1 %), KTpClPB (x_i = 38.8 %), PVC (w = 32.2 %)	Li^+, –2.22; Na^+, –1.43; K^+, –0.60; Rb^+, –0.33; NH_4^+, –1.01; Mg^{2+}, –3.92; Ca^{2+}, –3.5; Sr^{2+}, –3.5; Ba^{2+}, –3.28	FIM	–	0.1	54	–	$c_{dl} = 10^{-4.48}$ M	[7]
		H^+, –1.0			1				

† in 0.1 M Na^+.
†† in 0.1 M K^+.
††† in 0.1 M NH_4^+.
†††† in 0.1 M Ca^{2+}.

Table 6: Cs^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$\lg K_{Cs^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
	Cs^+-17 (w = 0.5 %), DBS (w = 37.1 %), KTpClPB (x_i = 38.8 %), PVC (w = 32.2 %)	Li^+, –1.38; Na^+, –1.3; K^+, –0.5; Rb^+, –0.17; NH_4^+, –0.66; Mg^{2+}, –3.8; Ca^{2+}, –3.4; Sr^{2+}, –3.5; Ba^{2+}, –3.3	FIM	–	0.1	50	–	$c_{dl} = 10^{-4.6}$ M	[7]
		H^+, –1.0			1				
Cs^+-18	**Cs^+-18** (w = 1 %), BEHS (w = 65.5 %), KTFPB (x_i = 50 %), PVC (w = 33 %)	Na^+, –3.0 K^+, –1.9 NH_4^+, –1.9 Ca^{2+}, –3.1	FIM	–	0.1	57 ± 2† 40 ± 2†† 37 ± 2††† 60 ± 2††††	–	ISFET; pH = 4	[8]
	Cs^+-18 (w = 1 %), oNPOE (w = 65.5 %), KTFPB (x_i = 50 %), PVC (w = 33 %)	Na^+, –3.3 K^+, –1.9 NH_4^+, –1.9 Ca^{2+}, –3.3	FIM	–	0.1	59 ± 2† 40 ± 2†† 39 ± 2††† 58 ± 2††††	–	ISFET; pH = 4	[8]
Cs^+-19	**Cs^+-19** (w = 1 %), BEHS (w = 65.5 %), KTFPB (x_i = 50 %), PVC (w = 33 %)	Na^+, –3.3 K^+, –1.9 NH_4^+, –1.9 Ca^{2+}, –3.3	FIM	–	0.1	59 ± 2† 40 ± 2†† 39 ± 2††† 58 ± 2††††	–	ISFET; pH = 4	[8]
	Cs^+-19 (w = 1 %), oNPOE (w = 65.5 %), KTFPB (x_i = 50 %), PVC (w = 33 %)	Na^+, –3.3 K^+, –2.1 NH_4^+, –2.1 Ca^{2+}, –3.1	FIM	–	0.1	56 ± 2† 41 ± 2†† 42 ± 2††† 56 ± 2††††	–	ISFET; pH = 4	[8]
Cs^+-20	**Cs^+-20** (w = 0.66 %), oNPOE (w = 65.84 %), KTFPB (x_i = 16.4 %), PVC (w = 33.33 %)	Li^+, –3.00; Na^+, –2.38; K^+, –0.99; Rb^+, –0.47; NH_4^+, –1.40; H^+, –2.06; Be^{2+}, –3.62; Mg^{2+}, –4.03; Ca^{2+}, –3.44; Sr^{2+}, –3.10; Ba^{2+}, –2.88; Co^{2+}, –2.59; Ni^{2+}, –2.47; Cu^{2+}, –2.42; Cd^{2+}, –2.11; Hg^{2+}, –2.12; Pb^{2+}, –2.00	SSM	0.1	0.1	51.9	–	c_{dl} = $10^{-4.3}$ M; 25 °C	[9]
		Ag^+, +0.94		0.01	0.01				
Cs^+-21	**Cs^+-21** (w = 0.66 %), oNPOE (w = 65.84 %), KTFPB (x_i = 20.8 %), PVC (w = 33.33 %)	Li^+, –1.44; Na^+, –0.65; K^+, +0.04; Rb^+, –0.10; NH_4^+, –1.79; H^+, –0.45; Be^{2+}, –1.73; Mg^{2+}, –2.37; Ca^{2+}, –2.21;	SSM	0.1	0.1	48.6	–	c_{dl} = $10^{-4.4}$ M; 25 °C	[9]

† in 0.1 M Na^+.
†† in 0.1 M K^+.
††† in 0.1 M NH_4^+.
†††† in 0.1 M Ca^{2+}.

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Table 6: Cs^+-Selective Electrodes (*Continued*)

ionophore	membrane composition	$lgK_{Cs^+,B^{n+}}$	method	primary ion conc. (M)	interfering ion conc. (M)	slope (mV/ decade)	linear range (M)	remarks	ref.
		Ba^{2+}, –1.64; Co^{2+}, –1.83; Ni^{2+}, –2.11; Cu^{2+}, –1.68; Cd^{2+}, –0.40; Hg^{2+}, +2.93; Pb^{2+}, –0.75 Ag^+, +1.13		0.01	0.01				
Cs^+-22	**Cs^+-22** (w = 0.66 %), oNPOE (w = 65.84 %), KTFPB (x_i = 20.6 %), PVC (w = 33.33 %)	Li^+, –2.27; Na^+, –1.94; K^+, –0.89; Rb^+, –0.39; NH_4^+, –0.99; H^+, –1.10; Be^{2+}, –3.17; Mg^{2+}, –2.77; Ca^{2+}, –2.70; Ba^{2+}, –2.51; Co^{2+}, –2.43; Ni^{2+}, –2.56; Cu^{2+}, –0.15; Cd^{2+}, –3.37; Hg^{2+}, +1.83; Pb^{2+}, –3.05	SSM	0.1	0.1	52.2	–	c_{dl} = $10^{-4.6}$ M; 25 °C	[9]
		Li^+, –1.8; Na^+, –1.2; K^+, –1.1; Rb^+, –0.2; NH_4^+, –0.8; H^+, –0.8; Ag^+, +0.47 (in table)	SSM	0.01	0.01	–	–	r.o.o.g.	
		Li^+, –1.1; Na^+, –0.6; K^+, –1.2; Rb^+, –0.2; NH_4^+, –0.7; H^+, –0.5; Ag^+, +0.5	SSM	0.001	0.001	–	–	r.o.o.g.	

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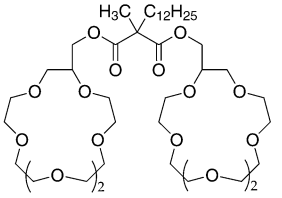
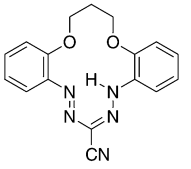
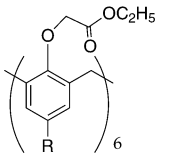


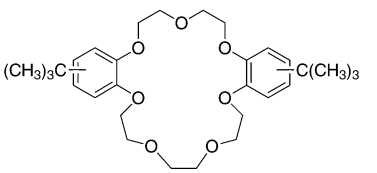
Cs^+-1 (M_r = 839.08)



Cs^+-3 (M_r = 321.34)

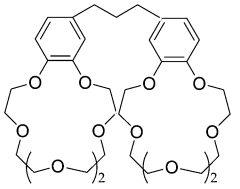


Cs^+-4 (M_r = 1489.95): R = *tert* -Bu
Cs^+-5 (M_r = 1333.68): R = H

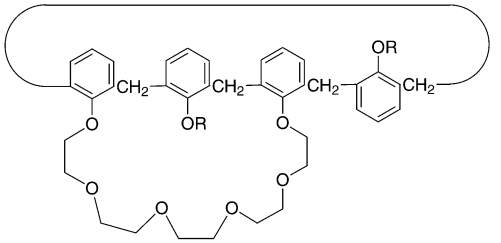


Cs^+-2 (M_r = 516.67)

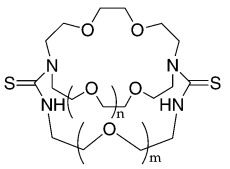
Table 6: Cs^+-Selective Electrodes (*Continued*)



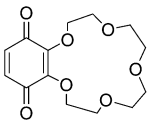
Cs^+-6 (M_r = 664.80)



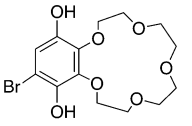
Cs^+-14 (M_r = 654.81): R = CH_3 (partial cone conformation)
Cs^+-16 (M_r = 710.9): R = $CH(CH_3)_2$ (partial cone conformation)



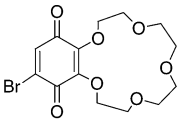
Cs^+-7 (M_r = 406.54): n = 0, m = 1
Cs^+-8 (M_r = 450.61): n = 1, m = 1
Cs^+-9 (M_r = 494.68): n = 1, m = 2
Cs^+-10 (M_r = 450.61): n = 0, m = 2
Cs^+-11 (M_r = 494.68): n = 0, m = 3
Cs^+-12 (M_r = 538.75): n = 1, m = 3
Cs^+-13 (M_r = 582.82): n = 1, m = 4



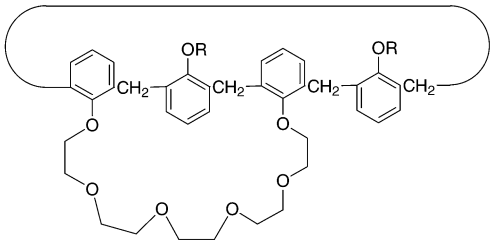
Cs^+-20 (M_r = 298.29)



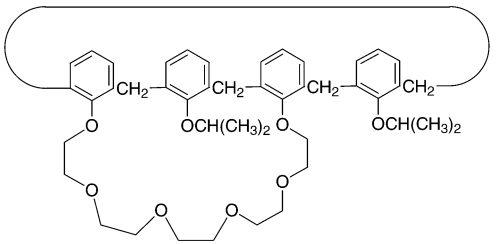
Cs^+-21 (M_r = 379.20)



Cs^+-22 (M_r = 377.19)



Cs^+-15 (M_r = 710.92): R = $CH(CH_3)_2$ (1,3 alternate conformation)
Cs^+-18 (M_r = 851.19): R = C_8H_{17} (1,3 alternate conformation)
Cs^+-19 (M_r = 1093.38): R = *o*-nitrophenyloctyl (1,3 alternate conformation)



Cs^+-17 (M_r = 710.92) (cone conformation)