

1.2. - Ion-selective electrodes

ION	Measurement range		Working pH range	Interfering ions	Working temperature range, °C
	M/l	mg/l			
Cl ⁻	10 ⁻⁵ - 10 ⁻¹	0.3 - 3.6•10 ³	2 - 9	S ²⁻ , I ⁻ , Br ⁻	5 - 80
Br ⁻	10 ⁻⁶ - 10 ⁻¹	0.8 - 8•10 ³	2 - 9	S ²⁻ , I ⁻ , Cl ⁻	5 - 80
I ⁻	10 ⁻⁶ - 10 ⁻¹	1 - 12.7•10 ³	2 - 9	S ²⁻ , Cl ⁻ , Br ⁻	5 - 80
Na ⁺	10 ⁻⁶ - 10 ⁻¹	0.023 - 2.3•10 ³	pH ≥ pNa+3	NH ₄ ⁺ , K ⁺	5 - 80
K ⁺	10 ⁻⁶ - 10 ⁻¹	0.4 - 39.6•10 ²	1 - 8.5	NH ₄ ⁺ , Na ⁺	5 - 45
NH ₄ ⁺	5•10 ⁻⁵ - 10 ⁻¹	0.9 - 1.8•10 ³	0 - 8.5	K ⁺ , Na ⁺	5 - 45
NO ₃ ⁻	10 ⁻⁶ - 10 ⁻¹	0.06 - 6.2•10 ³	0 - 10	CO ₃ ²⁻ , Cl ⁻ , NO ₂ ⁻	5 - 45
Ag ⁺	10 ⁻⁶ - 10 ⁻¹	1 - 10.8•10 ³	2 - 12	Hg ²⁺	5 - 80
S ²⁻	10 ⁻⁶ - 10 ⁻¹	0.32 - 3.21•10 ³	5 - 8	Hg ²⁺	5 - 80
Cu ²⁺	10 ⁻⁵ - 10 ⁻¹	0.64 - 6.36•10 ³	3 - 5	Hg ²⁺ , Ag ⁺ , Fe ³⁺	5 - 80
Cd ²⁺	10 ⁻⁵ - 10 ⁻¹	1 - 11.24•10 ³	1 - 5	Hg ²⁺ , Ag ⁺ , Pb ²⁺ , Cu ²⁺	5 - 80
Pb ²⁺	10 ⁻⁵ - 10 ⁻¹	2 - 20.72•10 ³	1 - 7	Hg ²⁺ , Ag ⁺ , Cu ²⁺ , Cd ²⁺	5 - 80
Hg ²⁺	10 ⁻⁵ - 10 ⁻¹	2 - 20.06•10 ³	0 - 3	Ag ⁺	5 - 80
Ca ²⁺	10 ⁻⁵ - 10 ⁻¹	0.4 - 4•10 ³	6 - 8	Mg ²⁺ , Ba ²⁺ , Zn ²⁺	5 - 45
Ba ²⁺	10 ⁻⁵ - 10 ⁻¹	1.37 - 13.7•10 ³	3 - 10	Mg ²⁺ , Ca ²⁺ , K ⁺ , Na ⁺ , NH ₄ ⁺	5 - 45
CO ₃ ²⁻	10 ⁻⁵ - 10 ⁻³	0.006 - 60.01	6 - 9	CH ₃ COO ⁻	5 - 45
ClO ₄ ⁻	10 ⁻⁶ - 1	0.99 - 99.5•10 ³	0 - 11	NO ₃ ⁻ , CNS ⁻ , I ⁻	5 - 45
ReO ₄ ⁻	10 ⁻⁶ - 10 ⁻¹	2.5 - 25.02•10 ³	0 - 11	NO ₃ ⁻ , CNS ⁻ , I ⁻	5 - 45
F ⁻	10 ⁻⁶ - 10 ⁻¹	0.019 - 1.9•10 ³	5 - 8	Fe ³⁺ , Al ³⁺	5 - 80
AuCl ₄ ⁻	5•10 ⁻⁶ - 10 ⁻¹	1.69 - 33.9•10 ³	2 - 11	I ⁻ , ClO ₄ ⁻	5 - 45
CNS ⁻	10 ⁻⁶ - 10 ⁻¹	0.58 - 5.81•10 ³	0 - 11	S ²⁻ , I ⁻ , Ag ⁺ , Cl ⁻ , Br ⁻ , CN ⁻	5 - 80
CrO ₄ ²⁻	10 ⁻⁶ - 10 ⁻¹	0.1 - 11.6•10 ³	0 - 12	ClO ₄ ⁻ , CNS ⁻	5 - 45
Ca ²⁺ + Mg ²⁺	10 ⁻⁵ - 10 ⁻¹		7 - 10	K ⁺ , Na ⁺ , Ba ²⁺	5 - 45
HPO ₄ ²⁻	5•10 ⁻⁵ - 10 ⁻¹	5 - 9.6•10 ³	6 - 8	NO ₃ ⁻ , CO ₃ ²⁻ , SO ₄ ²⁻	5 - 45
pH			0 - 14		0 - 130
pH combination			0 - 14		0 - 130
Eh					0 - 130
Reference electrode					