

Catch Them All

Combined Ion-Selective Electrode

As various as the range of different ions, as various is the selection of ion-selective electrodes (ISE). The special Click & Clear™ junction allows for an optimal contact of the electrolyte solution and the sample. With the dedicated solutions the sample can be optimally prepared for successful measurement of ion concentration.



perfection™ sensors



perfection™ comb Na⁺

Measuring ion	perfection™	Order number electrode	Cable and connections	Measuring range	Temperature range	Optimal pH range	Type of membrane	Reference electrolyte	Order no. membrane module	Order no. ISA solution
Ag ⁺ /S ²⁻	comb Ag ⁺ /S ²⁻	51344700	1.2 m; BNC	10 ⁻⁷ ...1 mol/L Ag ⁺ : 0.01...108000 mg/L S ²⁻ : 0.003...32000 mg/L	0...80 °C	2...12	Solid state	Ion Electrolyte B 51344751		Ag ⁺ : 51344760
		51344800	1.2 m; Lemo							S ²⁻ : see manual
Ca ²⁺	comb Ca ²⁺	51344703	1.2 m; BNC	5 · 10 ⁻⁷ ...1 mol/L 0.02...40100 mg/L	0...40 °C	2.5...11	Polymer	Ion Electrolyte A 51344750	51344850	51344761
		51344803	1.2 m; Lemo							
Cl ⁻	comb Cl ⁻	51344706	1.2 m; BNC	5 · 10 ⁻⁶ ...1 mol/L 1.8...35500 mg/L	0...80 °C	2...12	Solid state	Ion Electrolyte B 51344751		51344760
		51344806	1.2 m; Lemo							
CN ⁻	comb CN ⁻	51344709	1.2 m; BNC	8 · 10 ⁻⁶ ...10 ⁻² mol/L 0.2...260 mg/L	0...80 °C	10...14	Solid state	Ion Electrolyte B 51344751		10 mol/L NaOH
		51344809	1.2 m; Lemo							
Cu ²⁺	comb Cu ²⁺	51344712	1.2 m; BNC	10 ⁻⁸ ...0.1 mol/L 6.4 · 10 ⁻⁴ ...6354 mg/L	0...80 °C	2...12	Solid state	Ion Electrolyte D 51344753		51344760
		51344812	1.2 m; Lemo							
F ⁻	comb F ⁻	51344715	1.2 m; BNC	10 ⁻⁶ mol/L...saturated 0.02 mg/L...saturated	0...80 °C	4.5...5.5	Solid state	Ion Electrolyte A 51344750		51344765
		51344815	1.2 m; Lemo							

The sodium chloride content of ketchup can be easily and cost-efficiently determined with the perfectION™ comb Cl⁻ electrode. The ingenious Click&Clear junction makes cleaning of the sensor fast and easy.



Measuring ion	perfectION™	Order number electrode	Cable and connections	Measuring range	Temperature range	Optimal pH range	Type of membrane	Reference electrolyte	Order no. membrane module	Order no. ISA solution
I ⁻	comb I ⁻	51344718	1.2 m; BNC	5 · 10 ⁻⁶ ...1 mol/L	0...80 °C	0...12	Solid state	Ion Electrolyte D 51344753		51344760
		51344818	1.2 m; Lemo	0.005...127000 mg/L						
K ⁺	comb K ⁺	51344721	1.2 m; BNC	10 ⁻⁶ ...1 mol/L	0...40 °C	2.5...11	Polymer	Ion Electrolyte E 51344754	51344851	51344762
		51344821	1.2 m; Lemo	0.04...39000 mg/L						
Na ⁺ ¹⁾	comb Na ⁺	51344724	S7	10 ⁻⁷ ...1 mol/L 0.002...23000 mg/L	0...80 °C	8...11	Na ⁺ -Glass	3 mol/L KCl 51350072		NH ₄ Cl / NH ₄ OH
NO ₃ ⁻	comb NO ₃ ⁻	51344727	1.2 m; BNC	7 · 10 ⁻⁶ ...1 mol/L NO ₃ ⁻	0...40 °C	2.5...11	Polymer	Ion Electrolyte F 51344755	51344852	51344763
		51344827	1.2 m; Lemo	0.1...14000 mg/L NO ₃ ⁻ as N						
Pb ²⁺	comb Pb ²⁺	51344730	1.2 m; BNC	10 ⁻⁶ ...0.1 mol/L	0...80 °C	4...7	Solid state	Ion Electrolyte B 51344751		5 mol/L NaClO ₄
		51344830	1.2 m; Lemo	0.2...20700 mg/L						
Common specifications		ion-selective electrode (ISE) with built-in reference / Type of junction: Click & Clear™ / Shaft material: Epoxy ¹⁾ exception: perfectION™ comb Na ⁺ : S7 screw cap / ceramic diaphragm / ARGENTHAL™ / Shaft material: Glass								