





### Legend

- Preferred electrode 
- Satisfactory substitute 
- Not recommended 
- Not applicable or relevant 

## pH ELECTRODE SELECTION CHART

Applications	Combined pH Electrode										Reference*		
	IH20	IH40	IJ44	IJ44A	PBFB	PBFC	IJ48	SI20	CS20	GL20	IH10	IJ14	PJFO
Adhesives	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Alkaline solutions above pH12	Preferred electrode	Not recommended	Preferred electrode	Not recommended	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Satisfactory substitute	Preferred electrode	Satisfactory substitute
Aquaculture	Satisfactory substitute	Satisfactory substitute	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Satisfactory substitute	Preferred electrode
Aquaria	Satisfactory substitute	Preferred electrode	Satisfactory substitute	Satisfactory substitute	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Satisfactory substitute	Preferred electrode
Beer and beverages	Satisfactory substitute	Preferred electrode	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Satisfactory substitute
Biological fluids/Life sciences	Not recommended	Satisfactory substitute	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Satisfactory substitute	Preferred electrode	Not recommended
Boiler Feed Water/Pure Water	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Satisfactory substitute	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Cheese, milk, yoghurt	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Cooling Tower Water	Satisfactory substitute	Preferred electrode	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Preferred electrode	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Corrosion Protection	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Preferred electrode	Satisfactory substitute	Not recommended
Edible Oils	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Education/teaching	Satisfactory substitute	Preferred electrode	Preferred electrode	Preferred electrode	Satisfactory substitute	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Foodstuffs	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
General Acid/Base titrations	Satisfactory substitute	Preferred electrode	Preferred electrode	Preferred electrode	Satisfactory substitute	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
General Laboratory Use	Satisfactory substitute	Preferred electrode	Preferred electrode	Preferred electrode	Satisfactory substitute	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
High temperature > 60°C	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	Not applicable	Not applicable	Not applicable	Not recommended	Not recommended	Not recommended
Hydroponics	Satisfactory substitute	Preferred electrode	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
In-Line Samples (low solids)	Preferred electrode	Preferred electrode	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Preferred electrode	Not applicable	Not recommended	Preferred electrode	Not recommended
In-Line Samples (high solids)	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not recommended	Not recommended	Not applicable	Not recommended	Preferred electrode	Not recommended
Inks and Paints	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Meats and Cheese	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Mineral Oils	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Non-aqueous measurements	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Non-aqueous titrations	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Petrochemical	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Pharmaceutical	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Plating Baths	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Pools and Spas	Preferred electrode	Preferred electrode	Not applicable	Not applicable	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Preferred electrode	Not applicable	Not recommended	Preferred electrode	Not recommended
Potable Water	Satisfactory substitute	Preferred electrode	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Research	Not recommended	Satisfactory substitute	Preferred electrode	Preferred electrode	Satisfactory substitute	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Satisfactory substitute	Preferred electrode	Not recommended
Sewage	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Soft Drinks and Bottled Water	Satisfactory substitute	Preferred electrode	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Preferred electrode
Soil/soil suspensions	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Tris buffers	Not recommended	Not recommended	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Not recommended	Preferred electrode	Not recommended
Waste water	Satisfactory substitute	Satisfactory substitute	Preferred electrode	Preferred electrode	Not recommended	Not recommended	Preferred electrode	Not applicable	Not applicable	Not applicable	Satisfactory substitute	Satisfactory substitute	Satisfactory substitute
Waterways	Satisfactory substitute	Preferred electrode	Satisfactory substitute	Satisfactory substitute	Not recommended	Not recommended	Satisfactory substitute	Not applicable	Not applicable	Not applicable	Not recommended	Not recommended	Not recommended
Wine and Juice	Satisfactory substitute	Satisfactory substitute	Preferred electrode	Preferred electrode	Satisfactory substitute	Satisfactory substitute	Preferred electrode	Not applicable	Not applicable	Not applicable	Satisfactory substitute	Preferred electrode	Satisfactory substitute

This document is intended only as a guide.