

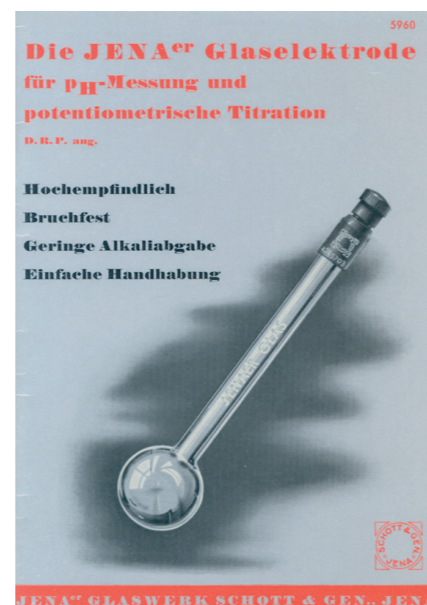
# Titration electrodes and accessories

No two titrations are alike. Different compositions, temperatures, conductivities, and viscosities of samples and different measurement conditions make for a million of different applications. The correct electrode for the titration application is of crucial importance for the correctness and reproducibility of the results. To help you choose the right electrode, we have put together the appropriate electrodes for the most important applications.

The pH electrode is a very important part of the system as it comes in direct contact with the sample and provides the measurement signal.

For more than 85 years, the brand SI Analytics is dedicated to the development and manufacturing of glass electrodes.

It all started with a patent on pH electrodes in the thirties - today it is a range of several hundred different sensors for all imaginable applications.



Our first instruction booklet appeared in 1938. In those days, the electrochemical pH measuring and the potentiometric titration still needed to be explained.

## Selection table titration electrodes

Titration	Details	Electrode type	Order no.
Aqueous acid base-titrations	General titration of acid and bases; total acid in beverages and foods; Kjeldahl (Only low-maintenance pH electrodes)	A 7780	285101260
		A 7780 NTC30 DIN N	285101290
		A 7780 1M-DIN-ID	285130200
		A 7780 IDS	285101080
	General, demanding samples, Acid and base capacity, Electroplating baths	N 62	285100034
		A 162 2M-DIN-ID	285130275
		A 162 IDS	285100120
		SCPpH-A120MF	285101300
		SCPpHT-A170MF-3M-DIN-N	285101320
		SCPpHT-A170MF-3M-IDS	285101310
	Low ionic media	N 64	285100059
		N 5900 A	285105135
	Small sample quantities	SCPpH-MIC-AMF	285101330
		SCPpHT-MIC-AMF-3M-DIN-N	285101335
SCPpHT-MIC-AMF-3M-IDS		285101345	

Non-aqueous acid base-titrations	Acid and base numbers in oils (TAN/TBN) in general	N 6480 eth	285092329	
	OH number, NCO number, FFA, saponification number	N 6480 eth	285092329	
	Acid number in aviation fuels (ASTM D3242)	OptiLine 6	285221300	
	Titration in perchloric acid/glacial acetic acid, epoxy number	N 6480 eis N 6480 eth	285092337 285092329	
Precipitation titrations	Acid number in insulating oils IEC 62021	N 64	285100059	
	Chloride in general, chloride/NaCl („salt“) in food (titrations with silver nitrate)	AgCl 62	285102413	
		AgCl 62 RG	285102100	
		Ag 62 IDS	285102150	
	Cyanide, bromide, iodide (titrations with silver nitrate)	Ag 6280	285102343	
		Ag 62 RG	285102090	
	Ag 62 IDS	Ag 62 IDS	285102150	
		AgS 62 RG	285102110	
	Mercaptans and hydrogen sulfide (titrations with silver nitrate)	Ag 1100 + A 1180	285103607 + 1057997	
	Fluoride with lanthanum nitrate	F 1100 PLH + Referenzelektrode	285216295	
Surfactants (anionic, cationic and non-ionic surfactants)	TEN 1100 + Referenzelektrode	285096980		
Redox titrations	General redox titrations, iodometry, permanganometry, cerimetry	Pt 62	285102019	
		Pt 62 RG	285102070	
		Pt 62 RG IDS	285102140	
	Iodine value, peroxide value	Pt 62	285102019	
		Pt 61	285102002	
		Pt 62 RG	285102070	
	COD	Pt 62 RG IDS	285102140	
		Pt 61	285102002	
		COD with sample changer	PT 5901	285105065
		Dead stop (SO <sub>2</sub> , Bromine value...) general	Pt 1200	285103512
Dead stop (SO <sub>2</sub> , Bromine value...) with autosampler/titration vessels		Pt 1400	285103537	
Volumetric KF titration		KF 1100	285102030	
Volumetric KF titration with sample changer		KF 1150	285102060	
KF coulometry	KF 1150	285102060		
Complexometric titrations	Total hardness (sum of alkaline earths Ca, Mg...)	Cu 1100 PLH + reference electrode	285216273	
	Calcium and magnesium/calcium and magnesium hardness	Ca 1100 PLH + reference electrode	285216268	
	Copper, aluminum, zinc, and other metals	Cu 1100 PLH + reference electrode	285216273	
All complexometric titrations	OptiLine 6	285221300		
Photometric titrations (general)	All titrations for color change in aqueous and non-aqueous media	OptiLine 6	285221300	
Reference electrodes	B 2920	1070046		
	B 3920	1070075		