

Titration Application Notes: Ion Index

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Chloride	T-45	Acetate, chloride and phosphate in an infusion solution
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Species	No.	Title
Copper	T-24	Metal contents of alkaline plating baths for cadmium, copper, lead or zinc
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Cyanide	T-22	Cyanide in alkaline plating baths for cadmium, copper, lead or zinc
Diglycolamine	T-27	Alkalinity of amine-containing gas washing solutions
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Dodecylsulfate	T-48	Anionic surfactants in a shower oil by potentiometric two-phase titration
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Fatty acid ethoxylates	T-68	Determination of coconut oil ethoxylates (non-ionic surfactants)
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Hardness	T-52	Total water hardness by photometric titration
Hydrochloric acid	T-45	Acetate, chloride and phosphate in an infusion solution
Hydrofluoric acid	T-34	Hydrofluoric and nitric acid in etching baths
Hydrogen peroxide	T-25	Hydrogen peroxide in aqueous solutions
Hydrogen sulfide	T-28	Hydrogen sulfide and mercaptans in petroleum products
Hydrogen sulfide	T-32	Hydrogen sulfide or sulfide in water
Hydroxide	T-23	Hydroxide and carbonate in alkaline plating baths for cadmium, copper, lead or zinc
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Iron	T-59	Iron in cement by photometric titration
Iron	T-64	Titanium and iron in mixtures
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Lauryl ether sulfate	T-56	Lauryl ether sulfate by photometric/turbidimetric titration
Lauryl sulfate	T-11	Anionic surfactants in a nickel plating bath
Lauryl sulfate	T-48	Anionic surfactants in a shower oil by potentiometric two-phase titration
Lauryl sulfate	T-55	Lauryl sulfate by photometric/turbidimetric titration
Lead	T-24	Metal contents of alkaline plating baths for cadmium, copper, lead or zinc
Lead	T-29	Alkyllead (anti-knock agent) in gasoline
Lidocaine	T-33	Lidocaine in ointments
Magnesium	T-52	Total water hardness by photometric titration
Magnesium	T-58	Sum of calcium and magnesium in cement by photometric titration
Mercaptans	T-28	Hydrogen sulfide and mercaptans in petroleum products
Monoethanolamine	T-27	Alkalinity of amine-containing gas washing solutions
Nickel	T-51	Nickel by photometric titration
Nickel	T-69	Iron and nickel in binary mixtures
Nitrate	T-37	Nitrogen content of nitrocellulose
Nitric acid	T-34	Hydrofluoric and nitric acid in etching baths
Nitrite	T-62	Analysis of nitrite solutions
Nitrogen	T-37	Nitrogen content of nitrocellulose
Nitrogen (basic)	T-44	Base number (TBN, basic N) of mineral oils
Non-ionic surfactants	T-15	Non-ionic surfactants in liquid household cleaners
Non-ionic surfactants	T-16	Non-ionic surfactants in compact washing powders
Non-ionic surfactants	T-50	Non-ionic surfactant nonylphenol ethoxylate (8 EO)
Non-ionic surfactants	T-67	Determination of tallow ethoxylates (non-ionic surfactants)
Non-ionic surfactants	T-68	Determination of coconut oil ethoxylates (non-ionic surfactants)
Nonylphenol ethoxylate	T-50	Non-ionic surfactant nonylphenol ethoxylate (8 EO)
Oxalic acid	T-42	Citric and oxalic acid in mixtures
Palladium	T-71	Determination of palladium using the «Ionic Surfactant» electrode
Penicillin	T-18	Determination of the total penicillin content
Perborate	T-26	Perborate, percarbonate or persulfate in washing powder
Percarbonate	T-26	Perborate, percarbonate or persulfate in washing powder
Persulfate	T-26	Perborate, percarbonate or persulfate in washing powder
Phenylglycine	T-40	Determination of the phenylglycine content

Species	No.	Title
Phosphate	T-45	Acetate, chloride and phosphate in an infusion solution
Phosphoric acid	T-45	Acetate, chloride and phosphate in an infusion solution
Potassium acetate	T-45	Acetate, chloride and phosphate in an infusion solution
Potassium cyanide	T-19	Cyanide and silver in a silver plating bath
Potassium cyanide	T-22	Cyanide in alkaline plating baths for cadmium, copper, lead or zinc
Potassium dihydrogen phosphate	T-45	Acetate, chloride and phosphate in an infusion solution
Silicate	T-31	Na ₂ O (free base) and SiO ₂ (silicate) in water glass
Silicon dioxide	T-31	Na ₂ O (free base) and SiO ₂ (silicate) in water glass
Silver	T-19	Cyanide and silver in a silver plating bath
Soaps	T-46	Soap content of soap noodles
Soaps	T-47	Soaps and anionic surfactants in washing powder by potentiometric two-phase titration
Sodium carbonate	T-23	Hydroxide and carbonate in alkaline plating baths for cadmium, copper, lead or zinc
Sodium chloride	T-2	Salt content (NaCl) of broth
Sodium chloride	T-3	Salt content (NaCl) of canned food
Sodium chloride	T-4	Salt content (NaCl) of meat products
Sodium chloride	T-45	Acetate, chloride and phosphate in an infusion solution
Sodium cyanide	T-19	Cyanide and silver in a silver plating bath
Sodium cyanide	T-22	Cyanide in alkaline plating baths for cadmium, copper, lead or zinc
Sodium dodecylsulfate	T-11	Anionic surfactants in a nickel plating bath
Sodium dodecylsulfate	T-48	Anionic surfactants in a shower oil by potentiometric two-phase titration
Sodium hydroxide	T-23	Hydroxide and carbonate in alkaline plating baths for cadmium, copper, lead or zinc
Sodium hydroxide	T-39	Free alkali in sodium hypochlorite
Sodium lauryl sulfate	T-11	Anionic surfactants in a nickel plating bath
Sodium lauryl sulfate	T-48	Anionic surfactants in a shower oil by potentiometric two-phase titration
Sodium oxide	T-31	Na ₂ O (free base) and SiO ₂ (silicate) in water glass
Sodium perborate	T-26	Perborate, percarbonate or persulfate in washing powder
Sodium percarbonate	T-26	Perborate, percarbonate or persulfate in washing powder
Sodium persulfate	T-26	Perborate, percarbonate or persulfate in washing powder
Sugars (reducing)	T-72	Reducing sugars in wine and sweets
Sulfate	T-7	Sulfate in water samples
Sulfate	T-8	Sulfate in brine
Sulfate	T-9	Sulfate in cement
Sulfate	T-53	Sulfate by photometric titration
Sulfide	T-28	Hydrogen sulfide and mercaptans in petroleum products
Sulfide	T-32	Hydrogen sulfide or sulfide in water
Sulfur	T-28	Hydrogen sulfide and mercaptans in petroleum products
Sulfuric acid	T-21	Sn(II) and sulfuric acid in a tin plating bath
Surfactants (anionic)	T-10	Anionic surfactants in shower lotions and shampoos
Surfactants (anionic)	T-11	Anionic surfactants in a nickel plating bath
Surfactants (anionic)	T-47	Soaps and anionic surfactants in washing powder by potentiometric two-phase titration
Surfactants (anionic)	T-48	Anionic surfactants in a shower oil by potentiometric two-phase titration
Surfactants (cationic)	T-12	Cationic surfactants in hair conditioner
Surfactants (cationic)	T-13	Cationic surfactant (cetrimid) in an antiseptic disinfectant
Surfactants (cationic)	T-49	Cationic surfactants in a household cleaner by potentiometric two-phase titration
Surfactants (non-ionic)	T-15	Non-ionic surfactants in liquid household cleaners
Surfactants (non-ionic)	T-16	Non-ionic surfactants in compact washing powders
Surfactants (non-ionic)	T-50	Non-ionic surfactant nonylphenol ethoxylate (8 EO)
Surfactants (non-ionic)	T-67	Determination of tallow ethoxylates (non-ionic surfactants)

Species	No.	Title
Surfactants (non-ionic)	T-68	Determination of coconut oil ethoxylates (non-ionic surfactants)
Tallow ethoxylates	T-67	Determination of tallow ethoxylates (non-ionic surfactants)
TAN	T-41	Acid number (TAN) of mineral oils
TBN	T-44	Base number (TBN, basic N) of mineral oils
Tin	T-21	Sn(II) and sulfuric acid in a tin plating bath
Titanium	T-64	Titanium and iron in mixtures
Total hardness	T-52	Total water hardness by photometric titration
Tranexamic acid	T-35	Tranexamic acid in injection solutions
Vitamin C	T-30	Ascorbic acid (vitamin C) in fruit juices
Vitamin C	T-54	Vitamin C (ascorbic acid) by photometric titration
Water hardness	T-52	Total water hardness by photometric titration
Zinc	T-24	Metal contents of alkaline plating baths for cadmium, copper, lead or zinc