Reactivo®

PRODUCT CATALOGUE

Titrant

Titrimetry | Volumetric Analysis

2022

Edition 01

Reactivo Reagent & Chemical Pte. Ltd.

Reactivo®

About our products

TiReady

Standardised Titrant Series

Reactivo® offers a wide variety of Titrants subject to stringent manufacturing and testing requirements. Options include standardised acids and bases, redox and complexometric titrant as well as non-aqueous titrant and chemical indicators are stock ready to support your application.

Our Motto

Designed for Quality

Reactivo® products are all “Designed for Quality”. From the selection of raw materials, packaging to the facilities and instrumental support, we emphasise on providing our best quality and unique capability for personalised services.

- Team Reactivo®

Time & Cost Saving

Depending on the amount required, customisable reagents and titrants with variety of packaging size are available to ready-made that doesn’t require need re-measuring and re-assurance of quality to save your valuable lab-time and man-hourly cost.

Freshly made-to-order

We are THE ONLY local chemical & reagents manufacturer offering timely delivery services to ensure your supply chain stability and business sustainability.

Reliable Quality

The manufacturing and quality control process are compliance to ISO/IEC 9001. All products are tested for quality with a Certificate of Analysis, thereby the stability of the solution is ensured for the entire shelf life in unopened bottles.

Value added service

We offer a growing range of high-quality aqueous, non-aqueous and complex titrants and/or reagents to support your testing protocols and applications.

Titrant

Consistency & Accuracy

For each solution, titre determination is performed under optimum and controlled conditions. All volumetric solutions are traceable to certified reference materials, which in turn are directly traceable to standard reference materials from NIST.

TiReady

Standardised Titrant Series

Acetic Acid (*Ethanoic Acid*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Acetic Acid Solution	64-19-7	CH_3COOH	1M	0.1N	5% (v/v)
			0.5M	1N	10% (v/v)
			1M		60% (v/v)
			2M		3% (w/w)
			4M		30% (w/w)

Ammonia (*Ammonium hydroxide*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Ammonia Solution	7664-41-7	NH_4OH	0.5M	1N	5% (v/v)
			1M		9% (v/v)
			2M		10% (v/v)
					20% (v/v)

Ceric Sulphate (*Cerium(IV) sulfate*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Ceric Sulphate Solution	13590-82-4	$Ce(SO_4)_2$		0.1N	

Copper Sulphate (*Copper(II) sulfate*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Copper Sulphate Solution	7758-99-8	$CuSO_4 \cdot 5H_2O$	1M		

Dimethylamine (*N-Methylmethanamine*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Dimethylamine Solution	124-40-3	$(CH_3)_2NH$			33% (v/v)

EDTA (*Ethylenediaminetetraacetic acid*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
EDTA Solution	6381-92-6	$C_{10}H_{14}N_2O_8 \cdot 2Na \cdot 2H_2O$	0.05M 0.01M 0.100M 0.1M	0.2N	

Hydrochloric Acid (*Chlorane*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Hydrochloric Acid Solution	7647-01-0	HCl	0.1M 0.001M 0.02M 0.05M 0.1M 0.2M 0.6M 1M 2.00M 2M 2.5M 4M 5M 6M	0.01N 0.05N 0.100N 0.1N 0.3N 0.5N 1N 2N 3.4N	2% (v/v) 3% (v/v) 5% (v/v) 8.5% (v/v) 9% (v/v) 10% (v/v) 15% (w/w) 50% (v/v)
Hydrochloric Acid in Ethanol	7647-01-0	HCl in C_2H_5OH	0.1M		
Hydrochloric Acid in Isopropanol	7647-01-0	HCl in C_3H_7OH			0.1N 0.5N

Iron (II) Sulphate (*Ferrous sulfate*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Iron (II) Sulphate	7782-63-0	$FeSO_4 \cdot 7H_2O$	0.1M		

Iodine (*Iodide*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: ppm
Iodine Solution	7553-56-2	I_2	0.05M 0.5M	0.01N 0.1N	
Iodine Solution in Ethanol	7553-56-2	I_2 in C_2H_5OH			13g/L

Nitric Acid (*Hydrogen Nitrate*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Nitric Acid Solution	7697-37-2	HNO_3	1M 2M	0.1N 1N 3N	4% (v/v) 5% (v/v) 9% (v/v) 5% (w/w) 10% (w/w)

Oxalic Acid (*Ethanedioic acid*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Oxalic Acid Solution	6153-56-6	$C_2H_2O_4$	0.25M		

Perchloric Acid (*Chloric(VII) Acid*)

Existing Varients

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Perchloric acid, in acetic acid	7601-90-3	$HClO_4$ in CH_3OOH		0.01N	

Phosphoric Acid (*Orthophosphoric acid*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Phosphoric Acid Solution	7664-38-2	H_3PO_4	0.015M 0.1M		25% (v/v) 50% (v/v)

Potassium Hydroxide (*Caustic Potash*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Potassium Hydroxide Solution	1310-58-3	KOH	3M 0.05M	0.1N 0.5N 0.5N 5N 10N	17% (w/w) 100g/L
Potassium Hydroxide, in Methanol	1310-58-3	KOH in CH_3OH	0.5M		
Potassium Hydroxide, in Ethanol	1310-58-3	KOH in C_2H_5OH	0.05M	0.1N 0.5N	
Potassium Hydroxide, in Isopropanol	1310-58-3	KOH in C_3H_7OH		0.1N	
Potassium Hydroxide, in Benzyl Alcohol	1310-58-3	KOH in $C_6H_5CH_2OH$	0.1M		

Potassium Permanganate (*Potassium manganate(VII)*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Potassium Permanganate Solution	7722-64-7	$KMnO_4$	0.002M 0.02M 0.2M	0.01N 0.1N	

Silver Nitrate (*Silver(I) nitrate*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Silver Nitrate Solution	7761-88-8	$AgNO_3$	0.002M 0.1M 1M		
Silver Nitrate, in Acetic Acid	7761-88-8	$AgNO_3$ in CH_3COOH		0.01N	

Sodium Chloride (*Common salt*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Sodium Chloride Solution	7647-14-5	NaCl	1M		1% (w/v) 3% (w/v)
Sodium Chloride, in Ethanol	7647-14-5	NaCl in C_2H_5OH	1M		

Sodium Hydroxide (*Caustic Soda*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Sodium Hydroxide Solution	1310-73-2	NaOH	0.1M	0.01N	3% (w/v)
			0.5M	0.1N	5% (w/v)
			1M	0.3N	5% (w/w)
			2M	0.4N	6% (w/v)
				0.5N	10% (w/v)
				1.0N	15% (w/v)
				1.2N	17% (w/v)
				2N	20% (w/v)
				5N	30% (w/v)
				10N	40% (w/v)
					45% (w/v)
					50% (w/v)
Sodium Hydroxide, in 50% (v/v) Methanol	1310-73-2	NaOH in CH_3OH	0.2M		

Sodium Nitrate (*Chile saltpeter*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Sodium Nitrate Solution	7631-99-4	$NaNO_3$	0.5M		2% (w/v)

Sodium Persulphate (Sodium peroxodisulfate)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Sodium Persulphate Solution	7775-27-1	$Na_2S_2O_8$	1.5M		
			2M		

Sodium Thiosulphate (*Sodium hyposulfite*)

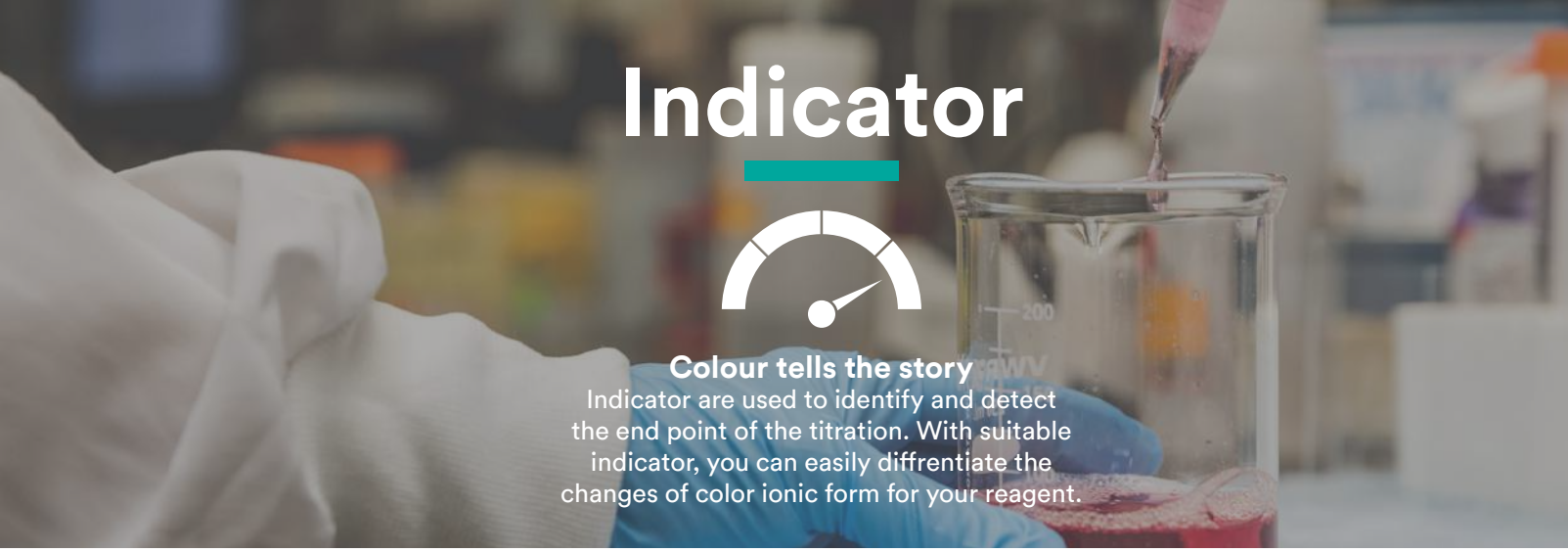
Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Sodium Thiosulphate Solution	7772-98-7	$Na_2S_2O_3$		0.01N	
				0.1N	

Sulphuric Acid Solution (*Oil of vitrol*)

Existing Variants

Description	CAS No.	Formula	Concentration: Molarity	Concentration: Normality	Concentration: %
Sulphuric Acid Solution	7664-93-9	H_2SO_4	0.1M	0.01N	1% (v/v)
			0.5M	0.1N	5% (v/v)
			1M	0.5N	6% (v/v)
			2M	0.500N	8% (v/v)
			4M	1N	8% (v/v)
				1.8N	10% (v/v)
				2N	15% (v/v)
				5N	25% (v/v)
				5.25N	10% (w/w)
				10N	



Indicator

Colour tells the story

Indicator are used to identify and detect the end point of the titration. With suitable indicator, you can easily diffrentiate the changes of color ionic form for your reagent.

ColourReady

Standardised Indicator Series

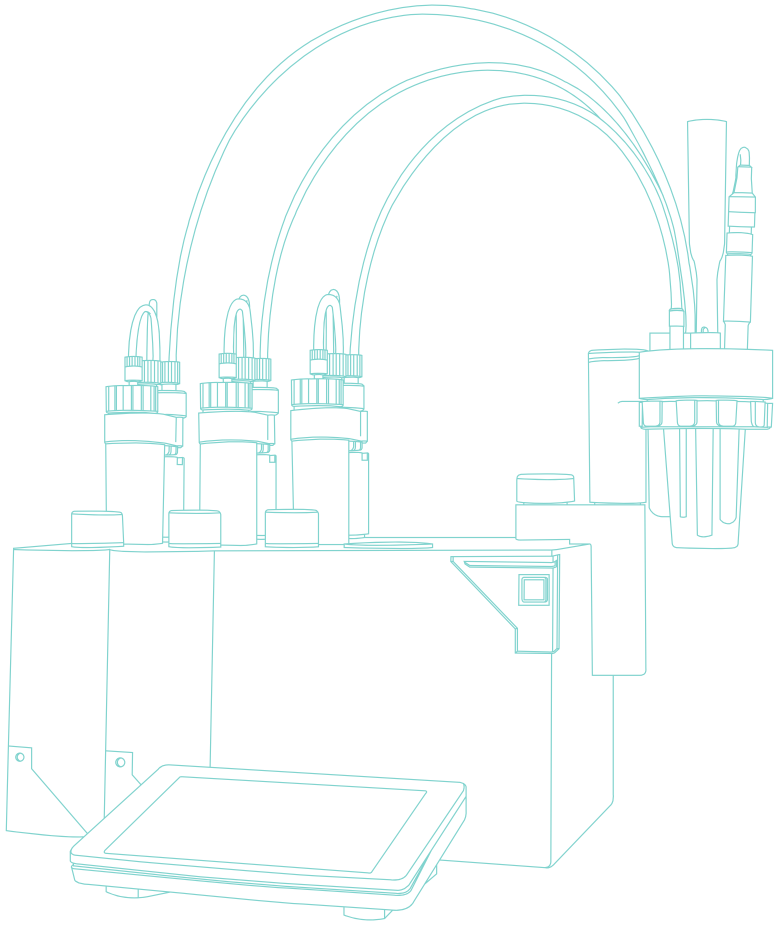
Indicators are essential in titration, the role of indicator in titration is to detect the endpoint of the titration that changes colour of the solution in response to a chemical change

Existing Powder Variants

Description	CAS No.	Formula	pH Range	Concentration
Bromocresol Green Indicator Powder	76-60-8	$C_{21}H_{14}Br_4O_5S$	3.8 ~ 5.4	-
Bromophenol Blue Indicator Powder	115-39-9	$C_{19}H_{10}Br_4O_5S$	3.0 ~ 4.6	-
Crystal Violet Indicator Powder	548-62-9	$C_{25}N_3H_{30}Cl$	0.0 ~ 2.0	-
Methyl Orange Indicator Powder	547-58-0	$C_{14}H_{14}N_3NaO_3S$	3.1 ~ 4.4	-
Methyl Blue Indicator Powder	28983-56-4	$C_{37}H_{27}N_3Na_2O_9S_3$	0.4 ~ 0.7	-
Methylene Blue Trihydrate Indicator Powder	7220-79-3	$C_{16}H_{18}N_3S \cdot Cl \cdot 3H_2O$	0.4 ~ 0.7	-
Phenolphthalein Indicator Powder	77-09-8	$C_{20}H_{14}O_4$	8.3 ~ 10.5	-
Thymolphthalein Indicator Powder	125-20-2	$C_{28}H_{30}O_4$	9.3 ~ 10.5	-
Toluidine Blue Indicator Powder	92-31-9	$C_{15}H_{16}ClN_3S$	3.6 ~ 4.6	-

Existing Solution Variants

Description	CAS No.	Formula	pH Range	Concentration
Bromocresol Green Indicator Solution	76-60-8	$C_{21}H_{14}Br_4O_5S$	3.8 ~ 5.4	1%
Bromocresol Blue Indicator Solution	76-59-5	$C_{27}H_{28}Br_2O_5S$	3.0 ~ 4.6	1%
Bromocresol Blue Indicator, in Ethanol	76-59-5	$C_{27}H_{28}Br_2O_5S$ in C_2H_5OH	3.0 ~ 4.6	1%
Cresol Red Indicator, in Ethanol	1733-12-6	$C_{21}H_{17}NaO_5S$ in C_2H_5OH	7.2 ~ 8.8	0.1%
Crystal Violet Indicator, in Glacial Acetic Acid	548-62-9	$C_{25}H_{30}ClN_3$ in CH_3COOH	0.0 ~ 2.0	1
Hydroxy Naphthol Blue Indicator, Disodium Salt	165660-27-5	$C_{20}H_{12}N_2O_{11}S_3 \cdot 2Na$	12.0 ~ 13.0	-
Methyl Orange Indicator Solution	547-58-0	$C_{14}H_{14}N_3NaO_3S$	3.1 ~ 4.4	0.1%
Methyl Red Indicator Solution	493-52-7	$C_{15}H_{15}N_3O_2$	4.0 ~ 4.6	-
Methyl Blue Indicator Solution	28983-56-4	$C_{37}H_{27}N_3Na_2O_9S_3$	0.4 ~ 0.7	1%
Murexide Indicator, Sodium Chloride Solution	3051-09-0	$C_8H_8N_6O_6$	-	0.2% (w/w)
Phenolphthalein Indicator Solution	77-09-8	$C_{20}H_{14}O_4$	8.3 ~ 10.5	1%
Phenolphthalein Indicator Solution	77-09-8	$C_{20}H_{14}O_4$	8.3 ~ 10.5	2%
Phenolphthalein Indicator, in Ethanol	77-09-8	$C_{20}H_{14}O_4$ in C_2H_5OH	8.3 ~ 10.5	1%
Phenolphthalein Indicator, in Ethanol	77-09-8	$C_{20}H_{14}O_4$ in C_2H_5OH	8.3 ~ 10.5	0.5% Wt
Starch Indicator Solution	9005-25-8	$C_6H_{10}O_5$	-	1%
Starch Indicator Solution	9005-25-8	$C_6H_{10}O_5$	-	2%
Universal Indicator Solution	-	-	1.0 ~ 13.0	-
Xylenol Orange Indicator Solution	1611-35-4	$C_{31}H_{32}N_2O_{13}S$	6.4 ~ 10.4	-



Reactivo®
a Brand by HCS

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