

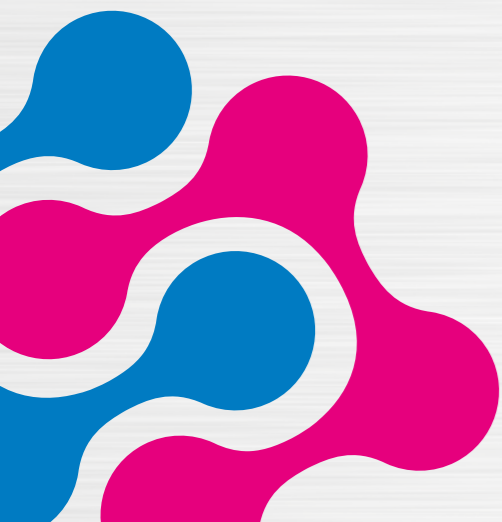


**HIGH-QUALITY
RAW MATERIALS
FOR BIOPROCESSING**

TW

PanReac
AppliChem
ITW Reagents

**Empowering
bioprocessing with
trusted partnerships**



Biopharmaceutical development and manufacturing rely on the consistent performance of every component, and on partners who understand not only how materials impact process outcomes, but also how essential agility and adaptability are in a **fast-evolving market**.

At **ITW Reagents**, we offer **high-purity raw materials** that support every stage of bioprocessing and industrial-scale manufacturing. Guided by our commitment to **purity, consistency, and low endotoxin levels**, we work to meet the demanding requirements of biopharmaceutical applications.

Beyond our portfolio, **we bring technical expertise, clean room production, and full supply chain visibility** to ensure traceability and regulatory compliance (IPEC). **Our European manufacturing sites operate under ISO-certified standards, guaranteeing reliability, transparency, and consistent quality across every process.**

More than a supplier, **ITW Reagents is a trusted/committed partner**, anticipating challenges and collaborating to deliver the most effective solutions.

Explore our portfolio to discover how **ITW Reagents** supports every stage of your bioprocess and formulation.

Upstream Solutions for Cell Culture and Fermentation

High-purity components suitable for both mammalian cell culture and microbial fermentation processes

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
141013	L(+)-Ascorbic Acid	(USP, BP, Ph. Eur.) pharma grade, BioChemica	50-81-7	1 kg, 5 kg	Acids
143006	Hydrochloric Acid 10% w/w	(USP-NF, Ph. Eur.) pure, pharma grade	7647-01-0	1 L, 10 L, 25 L, 200 L	Acids
A3198	L-Alanyl-L-Glutamine	for cell culture	39537-23-0	1 kg, 2 kg	Amino acids & vitamins
A1345	L-Arginine base	(Ph. Eur., USP) pure, pharma grade	74-79-3	10 kg	Amino acids & vitamins
Z44653	L-Arginine mono-Hydrochloride	(USP, BP, Ph. Eur., JP) low endotoxin pure, pharma gr.	1119-34-2	5 kg	Amino acids & vitamins
A1668	L-Asparagine 1-hydrate	(Ph.Eur.) pure, pharma grade	5794-13-8	1 kg, 25 kg	Amino acids & vitamins
A1701	L-Aspartic Acid	(Ph. Eur., USP) pure, pharma grade	56-84-8	5 kg, 50 kg	Amino acids & vitamins
143977	D(+)-Biotin	(USP) pure, pharma grade	58-85-5	50 g, 1 g	Amino acids & vitamins
Z43645	L-Cystine	(Ph. Eur.) low endotoxin pure, pharma grade	56-89-3	5 kg	Amino acids & vitamins
637765	L-Cystine Dihydrochloride low endotoxin	pharma grade	30925-07-6	5 kg, 10 kg	Amino acids & vitamins
Z4B216	Folic acid crystalline	(Ph. Eur., USP) low endotoxine, pharma grade	59-30-3	5 kg	Amino acids & vitamins
A7092	Folic acid crystalline	(Ph. Eur., USP) pure, pharma grade	59-30-3	100 g, 5 kg, 20 kg	Amino acids & vitamins



<< Upstream Solutions for Cell Culture and Fermentation

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
A1704	L-Glutamic Acid	(Ph. Eur., USP) pure, pharma grade	56-86-0	1 kg	Amino acids & vitamins
A1420	L-Glutamine	(DAB, USP) pure, pharma grade	56-85-9	1 kg, 25 kg	Amino acids & vitamins
631340	Glycine	Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	56-40-6	25 kg	Amino acids & vitamins
141340	Glycine	(USP, BP, Ph. Eur.) pure, pharma grade	56-40-6	1 kg, 5 kg, 25 kg	Amino acids & vitamins
A1341	L-Histidine	(Ph. Eur., USP) pure, pharma grade	71-00-1	5 kg	Amino acids & vitamins
A1716	myo-Inositol	BioChemica	87-89-8	10 kg	Amino acids & vitamins
A1440	L-Isoleucine	(Ph. Eur., USP) pure, pharma grade	73-32-5	1 kg	Amino acids & vitamins
A1426	L-Leucine	(Ph. Eur., USP) pure, pharma grade	61-90-5	1 kg	Amino acids & vitamins
A1342	L-Lysine 1-hydrate	(DAB) pure, pharma grade	39665-12-8	10 kg	Amino acids & vitamins
A0959	Nicotinamide	(Ph. Eur., USP) pure, pharma grade	98-92-0	250 g	Amino acids & vitamins
A1344	L-Phenylalanine	(Ph. Eur., USP) pure, pharma grade	63-91-2	1 kg	Amino acids & vitamins
A1707	L-Proline	(Ph. Eur., USP) pure, pharma grade	147-85-3	1 kg, 20 L	Amino acids & vitamins
A0960	Pyridoxal Hydrochloride	BioChemica	65-22-5	1 kg	Amino acids & vitamins
A8093	Pyridoxine Hydrochloride	(Ph. Eur., USP) pure, pharma grade	58-56-0	5 kg	Amino acids & vitamins
A1708	L-Serine	(Ph. Eur., USP) pure, pharma grade	56-45-1	1 kg	Amino acids & vitamins
Z41683	Sodium L-Glutamate 1-hydrate	(USP-NF) low endotoxin pure, pharma grade	6106-04-3	5 kg	Amino acids & vitamins
A8094	Thiamine hydrochloride	pure Ph. Eur.	67-03-8	1 kg	Amino acids & vitamins
A1419	L-Threonine	(Ph. Eur., USP) pure, pharma grade	72-19-5	1 kg	Amino acids & vitamins
A1645	L-Tryptophan	(Ph. Eur., USP) pure, pharma grade	73-22-3	1 kg, 25 kg	Amino acids & vitamins
A1677	L-Tyrosine	(Ph. Eur., USP) pure, pharma grade	60-18-4	1 kg	Amino acids & vitamins
A1637	L-Valine	(Ph. Eur., USP) pure, pharma grade	72-18-4	1 kg	Amino acids & vitamins
A8454	Vitamin B12	(Ph. Eur.) pure, pharma grade	68-19-9	500 g	Amino acids & vitamins

<< Upstream Solutions for Cell Culture and Fermentation

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
631687	Sodium Hydroxide pellets	(Ph. Eur, BP, USP, JP) IPEC grade	1310-73-2	1 kg, 5 kg, 10 kg, 25 kg	Bases
LZ3402	Sodium Hydroxide solution 25% w/w	pure, pharma grade	1310-73-2	2.5 L, 1000 L	Bases
A1025	Bis-Tris	for buffer solutions	6976-37-0	25 kg	Buffers
A1069	HEPES	for buffer solutions	7365-45-9	25 kg	Buffers
A3268	HEPES	for cell culture	7365-45-9	25 kg	Buffers
A4517	MOPS Hemisodium Salt	for buffer solutions	117961-20-3	25 kg	Buffers
Z41940	Tris	(USP, BP, Ph. Eur.) low endotoxin pure, pharma gr.	77-86-1	1 kg, 5 kg, 10 kg, 25 kg	Buffers
633654	Tris Hydrochloride	low endotoxin pharma grade	1185-53-1	10 kg	Buffers
Z42173	D(+)-Galactose	low endotoxin (Ph. Eur.) pure, pharma grade	59-23-4	5 kg	Carbohydrates
A1349	D(+)-Glucosa 1-hidrato	BioChemica	77938-63-7	8 kg, 25 kg	Carbohydrates
141341	D(+)-Glucose anhydrous	(USP, BP, Ph. Eur.) pharma grade, BioChemica	50-99-7	1 kg, 5 kg, 25 kg	Carbohydrates
631621	D(+)-Sucrose	(USP-NF, BP, Ph. Eur.) low endotoxin, IPEC grade	57-50-1	25 kg	Carbohydrates
Z42312	Tween® 20	(RFE, USP-NF, BP, Ph. Eur., JPE) pure, pharma grade	9005-64-5	1 L, 5 L, 25 L	Detergents
142050	Tween® 80	(USP-NF, BP, Ph. Eur.) pharma grade, BioChemica	9005-65-6	1 L, 5 L	Detergents
A2151	2'-Deoxycytidine Hydrochloride	BioChemica	3992-42-5	25 g	Nucleosides, nucleotides and nucleic acids
A2152	2'-Deoxyguanosine 1-hydrate	BioChemica	961-07-9	25 g	Nucleosides, nucleotides and nucleic acids
A2265	2'-Deoxythymidine	BioChemica	50-89-5	1000 g	Nucleosides, nucleotides and nucleic acids
Z46543	Guanosine low endotoxin,	pure grade	118-00-3	265 g, 750 g	Nucleosides, nucleotides and nucleic acids
A0700	Hypoxanthine	BioChemica	68-94-0	1 kg	Nucleosides, nucleotides and nucleic acids
A7729	Hypoxanthine Sodium Salt	BioChemica	45738-97-4	1 kg	Nucleosides, nucleotides and nucleic acids
A1394	NADP Sodium Salt		1184-16-3	5 g, 50 g	Nucleosides, nucleotides and nucleic acids

<< Upstream Solutions for Cell Culture and Fermentation

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
A0666	Uridine	BioChemica	58-96-8	5 kg, 25 kg	Nucleosides, nucleotides and nucleic acids
191232	Calcium Chloride 2-hydrate powder	(USP, BP, Ph. Eur.) pharma grade	10035-04-8	25 kg	Salts
141270	Copper(II) Sulfate 5-hydrate	(BP, Ph. Eur.) pure, pharma grade	7758-99-8	25 kg	Salts
141669	EDTA Disodium Salt 2-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6381-92-6	1 kg, 5 kg, 25 kg	Salts
A2253	β-Glycerol Phosphate Disodium Salt 5-hydrate	BioChemica	819-83-0	1 kg	Salts
141362	Iron(II) Sulfate 7-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	7782-63-0	5 kg, 25 kg	Salts
631396	Magnesium Chloride 6-hydrate	(Ph. Eur., BP) IPEC grade	7791-18-6	1 kg, 25 kg	Salts
631404	Magnesium Sulfate 7-hydrate	(Ph. Eur, BP) IPEC grade	10034-99-8	25 kg	Salts
141404	Magnesium Sulfate 7-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	10034-99-8	1 kg, 5 kg, 25 kg	Salts
A2088	D-Pantothenic Acid Calcium Salt	BioChemica	137-08-6	100 g	Salts
191494	Potassium Chloride	(USP, BP, Ph. Eur.) pharma grade	7447-40-7	1 kg, 25 kg	Salts
141512	di-Potassium Hydrogen Phosphate anhydrous	(BP, Ph. Eur.) pure, pharma grade	7758-11-4	1 kg, 25 kg	Salts
141648	Sodium Carbonate anhydrous	(USP-NF, BP, Ph. Eur.) pure, pharma grade	497-19-8	1 kg, 5 kg, 25 kg	Salts
631659	Sodium Chloride	(Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	7647-14-5	5 kg, 25 kg	Salts
141679	di-Sodium Hydrogen Phosphate anhydrous	(USP, BP, Ph. Eur.) pure, pharma grade	7558-79-4	1 kg, 5 kg, 25 kg	Salts
Z42507	di-Sodium Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) low endotoxin pure, pharma grade	10028-24-7	1000 g	Salts
142507	di-Sodium Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	10028-24-7	1 kg, 5 kg, 25 kg	Salts
141965	Sodium di-Hydrogen Phosphate 1-hydrate	(USP, BP) pure, pharma grade	10049-21-5	25 kg	Salts
141677	Sodium di-Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) for analysis, pharma grade	13472-35-0	1 kg, 25 kg	Salts
631638	Sodium Hydrogen Carbonate	(Ph. Eur, BP, USP) IPEC grade	144-55-8	1 kg, 5 kg, 25 kg	Salts
A4859	Sodium Pyruvate	for cell culture	113-24-6	10 kg	Salts
192756	Sodium Selenite anhydrous	(Ph. Eur., BP) pharma grade	10102-18-8	1 kg	Salts

<< Upstream Solutions for Cell Culture and Fermentation

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
A2217	Putrescine dihydrochloride		333-93-7	500 g, 10 kg	Specialties
A0672	Spermine	BioChemica	71-44-3	1 kg	Specialties
A7080	Spermine Tetrahydrochloride	BioChemica	306-67-2	100 g, 250 g, 5 kg	Specialties
191754	Urea crystalline	(USP, BP, Ph. Eur.) pharma grade	57-13-6	25 kg	Specialties

Downstream Solutions for Purification Processes

High-purity products to ensure consistency and reproducibility in purification workflows

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
141008	Acetic Acid glacial	(USP, BP, Ph. Eur., JP) pure, pharma grade	64-19-7	1 L, 2.5 L, 5 L, 25 L, 1000 L	Acids
192979	Acetic Acid 30% w/w	pharma grade	64-19-7	1000 L	Acids
631556	Acetic Acid 80%	pharma grade	64-19-7	25 L	Acids
A8505	Acetic acid 4 M		64-19-7	1000 L	Acids
141808	Citric Acid anhydrous	(USP, BP, Ph. Eur., JP) pure, pharma grade	77-92-9	1 kg, 5 kg, 25 kg	Acids
141018	Citric Acid 1-hydrate	(USP, BP, Ph. Eur., JP) pure, pharma grade	5949-29-1	1 kg, 5 kg, 25 kg	Acids
141020	Hydrochloric Acid 37%	(USP-NF, BP, Ph. Eur.) pure, pharma grade	7647-01-0	5 L, 25 L	Acids
181021	Hydrochloric Acid 1 mol/l (1N)	(Reag. USP, Ph. Eur.) volumetric solution	7647-01-0	950 L	Acids
IG2108	Hydrochloric Acid 2 mol/l (2N)	pharma grade	7647-01-0	25 L	Acids
192109	Hydrochloric Acid 5 mol/l (5N)	pharma grade	7647-01-0	10 L, 200 L	Acids
A1345	L-Arginine base	(Ph. Eur., USP) pure, pharma grade	74-79-3	10 kg	Amino acids & vitamins
Z44653	L-Arginine mono-Hydrochloride	(USP, BP, Ph. Eur., JP) low endotoxin pure, pharma gr.	1119-34-2	5 kg	Amino acids & vitamins
192415	Sodium Hydroxide 1 mol/l (1N)	pharma grade	1310-73-2	2.5 L	Bases
192159	Sodium Hydroxide 5 mol/l (5N)	pharma grade	1310-73-2	10 L	Bases
AL6406	Sodium Hydroxide 6 mol/l (6N)	pharma grade	1310-73-2	1 L	Bases
193508	Sodium Hydroxide 10 mol/l (10N)	pharma grade	1310-73-2	10 L	Bases
191750	Triethanolamine	(BP, Ph. Eur., USP-NF) pharma grade	102-71-6	1 L, 25 L, 60 L, 200 L	Bases
A1025	Bis-Tris	for buffer solutions	6976-37-0	25 kg	Buffers
A1069	HEPES	for buffer solutions	7365-45-9	25 kg	Buffers

>>

<< Downstream Solutions for Purification Processes

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
A4517	MOPS Hemisodium Salt	for buffer solutions	117961-20-3	25 kg	Buffers
A0964	PBS buffer (1X, Dulbecco's) - Powder		Not applicable	1000 L	Buffers
A1085	Tricine	BioChemica	5704-04-1	1 kg	Buffers
Z41940	Tris	(USP, BP, Ph. Eur.) low endotoxin pure, pharma gr.	77-86-1	1 kg, 5 kg, 10 kg, 25 kg	Buffers
633654	Tris Hydrochloride	low endotoxin pharma gr.	1185-53-1	10 kg	Buffers
142050	Tween® 80	(USP-NF, BP, Ph. Eur.) pharma grade, BioChemica	9005-65-6	1 L, 5 L	Detergents
191232	Calcium Chloride 2-hydrate powder	(USP, BP, Ph. Eur.) pharma grade	10035-04-8	25 kg	Salts
141678	di-Sodium Hydrogen Phosphate 12-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	10039-32-4	1 kg, 5 kg, 25 kg	Salts
Z42507	di-Sodium Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) low endotoxin pure, pharma grade	10028-24-7	1000 g	Salts
142507	di-Sodium Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	10028-24-7	1 kg, 5 kg, 25 kg	Salts
141679	di-Sodium Hydrogen Phosphate anhydrous	(USP, BP, Ph. Eur.) pure, pharma grade	7558-79-4	1 kg, 5 kg, 25 kg	Salts
141669	EDTA Disodium Salt 2-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6381-92-6	1 kg, 5 kg, 25 kg	Salts
A1499	Guanidine Hydrochloride	BioChemica	50-01-1	5 kg, 25 kg	Salts
631396	Magnesium Chloride 6-hydrate	(Ph. Eur., BP) IPEC grade	7791-18-6	1 kg, 25 kg	Salts
141490	Potassium Carbonate	pure	584-08-7	25 kg	Salts
191494	Potassium Chloride	(USP, BP, Ph. Eur.) pharma grade	7447-40-7	1 kg, 25 kg	Salts
141512	di-Potassium Hydrogen Phosphate anhydrous	(BP, Ph. Eur.) pure, pharma grade	7758-11-4	1 kg, 25 kg	Salts
141509	Potassium di-Hydrogen Phosphate	(USP-NF, BP, Ph. Eur.) pure, pharma grade	7778-77-0	1 kg, 5 kg, 25 kg	Salts
141632	Sodium Acetate 3-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6131-90-4	1 kg, 5 kg, 25 kg	Salts
636454	Sodium Caprylate	(USP-NF, BP, Ph. Eur., ChP) low endotoxin, IPEC grade	1984-06-1	10 kg, 25 kg	Salts
141647	Sodium Carbonate 10-hydrate	pure	6132-02-1	22 kg	Salts
191648	Sodium Carbonate anhydrous	(ACS) pharma grade	497-19-8	25 kg	Salts
141648	Sodium Carbonate anhydrous	(USP-NF, BP, Ph. Eur.) pure, pharma grade	497-19-8	1 kg, 5 kg, 25 kg	Salts
631659	Sodium Chloride	(Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	7647-14-5	5 kg, 25 kg	Salts

<< Downstream Solutions for Purification Processes

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
141965	Sodium di-Hydrogen Phosphate 1-hydrate	(USP, BP) pure, pharma grade	10049-21-5	25 kg	Salts
141677	Sodium di-Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) for analysis, pharma grade	13472-35-0	1 kg, 25 kg	Salts
631638	Sodium Hydrogen Carbonate	(Ph. Eur, BP, USP) IPEC grade	144-55-8	1 kg, 5 kg, 25 kg	Salts
631655	tri-Sodium Citrate 2-hydrate	(Ph. Eur, BP, USP) IPEC grade	6132-04-3	25 kg	Salts
191754	Urea crystalline	(USP, BP, Ph. Eur.) pharma grade	57-13-6	25 kg	Specialties

Cleaning-in-Place & Storage Solutions for Chromatography Columns

High-purity products ensuring effective system cleaning and reliable column preservation

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
141008	Acetic Acid glacial	(USP, BP, Ph. Eur., JP) pure, pharma grade	64-19-7	1 L, 2.5 L, 5 L, 25 L, 1000 L	Acids
A8505	Acetic acid 4 M		64-19-7	1000 L	Acids
196884	Acetic Acid 25% w/w	pharma grade	64-19-7	10 L	Acids
192979	Acetic Acid 30% w/w	pharma grade	64-19-7	1000 L	Acids
631556	Acetic Acid 80%	pharma grade	64-19-7	25 L	Acids
141808	Citric Acid anhydrous	(USP, BP, Ph. Eur., JP) pure, pharma grade	77-92-9	1 kg, 5 kg, 25 kg	Acids
141018	Citric Acid 1-hydrate	(USP, BP, Ph. Eur., JP) pure, pharma grade	5949-29-1	1 kg, 5 kg, 25 kg	Acids
197012	Citric Acid solution 15% w/v	pharma grade	77-92-9	200 L	Acids
181021	Hydrochloric Acid 1 mol/l (1N)	(Reag. USP, Ph. Eur.) volumetric solution	7647-01-0	950 L	Acids
IG2108	Hydrochloric Acid 2 mol/l (2N)	pharma grade	7647-01-0	25 L	Acids
192109	Hydrochloric Acid 5 mol/l (5N)	pharma grade	7647-01-0	10 L, 200 L	Acids
143006	Hydrochloric Acid 10% w/w	(USP-NF, Ph. Eur.) pure, pharma grade	7647-01-0	1 L, 10 L, 25 L, 200 L	Acids
193378	Hydrochloric Acid 25%	(ISO) pharma grade	7647-01-0	25 kg	Acids
141020	Hydrochloric Acid 37%	(USP-NF, BP, Ph. Eur.) pure, pharma grade	7647-01-0	5 L, 25 L	Acids
141032	ortho-Phosphoric Acid 85%	(USP-NF, BP, Ph. Eur.) pure, pharma grade	7664-38-2	1 L, 5 L, 25 L	Acids
141129*	Ammonia 25% (as NH ₃)	(BP, Ph. Eur.) pure, pharma grade	1336-21-6	1 L, 25 L, 200 L, 900 L	Bases

>>

<< Cleaning-in-Place & Storage Solutions for Chromatography Columns

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
141130*	Ammonia 30% (as NH ₃)	(USP-NF, BP, Ph. Eur., ACS) pure, pharma grade	1336-21-6	1 L, 2.5 L, 25 L, 200 L	Bases
192415	Sodium Hydroxide 1 mol/l (1N)	pharma grade	1310-73-2	2.5 L	Bases
192159	Sodium Hydroxide 5 mol/l (5N)	pharma grade	1310-73-2	10 L	Bases
AL6406	Sodium Hydroxide 6 mol/l (6N)	pharma grade	1310-73-2	1 L	Bases
193508	Sodium Hydroxide 10 mol/l (10N)	pharma grade	1310-73-2	10 L	Bases
A8603	Sodium Hydroxide solution (4M)		1310-73-2	1000 L	Bases
LZ3402	Sodium Hydroxide solution 25% w/w	pure, pharma grade	1310-73-2	2.5 L, 1000 L	Bases
Z44320	Sodium Hydroxide solution 30% w/w	pure, pharma grade	1310-73-2	7.5 L, 18.5 L	Bases
141571	Sodium Hydroxide solution 50% w/v	pure	1310-73-2	10 L	Bases
192404	Sodium Hydroxide solution 50% w/w		1310-73-2	1000 L	Bases
141929	Sodium Hydroxide pearls	(USP-NF, BP, Ph. Eur.) pure, pharma grade	1310-73-2	5 kg, 25 kg	Bases
631687	Sodium Hydroxide pellets	(Ph. Eur, BP, USP, JP) IPEC grade	1310-73-2	1 kg, 5 kg, 10 kg, 25 kg	Bases
631632	Sodium Acetate 3-hydrate	(Ph. Eur, BP, USP) IPEC grade	6131-90-4	5 kg, 25 kg	Salts
141632	Sodium Acetate 3-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6131-90-4	1 kg, 5 kg, 25 kg	Salts
631659	Sodium Chloride	(Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	7647-14-5	5 kg, 25 kg	Salts
191081	Benzyl Alcohol	(Ph. Eur.) pharma grade	100-51-6	25 L, 200 L	Solvents
141081	Benzyl Alcohol	(USP-NF, BP, Ph. Eur.) pure, pharma grade	100-51-6	1 L, 5 L, 25 L, 200 L	Solvents
631086	Ethanol absolute	(Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	64-17-5	500 mL, 1 L, 5 L, 25 L, 200 L, 1000 L	Solvents
192695	Ethanol 70% v/v	(BP) pharma grade	64-17-5	1 L, 2.5 L, 5 L, 10 L, 30 L, 200 L	Solvents
631085	Ethanol 96% v/v	(Ph.Eur, BP, USP) IPEC grade	64-17-5	500 mL, 1 L, 2.5 L, 5 L, 10 L, 25 L, 200 L, 1000 L	Solvents
631090	2-Propanol	(Ph. Eur, BP, USP-NF) IPEC grade	67-63-0	1 L, 2.5 L, 5 L, 25 L, 200 L, 1000 L	Solvents

*Optional for sodium-free or volatile cleaning protocols

Formulation Solutions for Product Stability

High-purity materials designed to ensure robustness during storage and final fill

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
141008	Acetic Acid glacial	(USP, BP, Ph. Eur., JP) pure, pharma grade	64-19-7	1 L, 2.5 L, 5 L, 25 L, 1000 L	Acids
141808	Citric Acid anhydrous	(USP, BP, Ph. Eur., JP) pure, pharma grade	77-92-9	1 kg, 5 kg, 25 kg	Acids
141018	Citric Acid 1-hydrate	(USP, BP, Ph. Eur., JP) pure, pharma grade	5949-29-1	1 kg, 5 kg, 25 kg	Acids
141034	L(+)-Lactic Acid	(BP, Ph. Eur.) pure, pharma gr.	79-33-4	1 L, 5 L	Acids
637763	N-Acetyl-DL-Tryptophan	(Ph. Eur, BP) low endotoxin, IPEC grade	87-32-1	5 kg, 25 kg	Amino acids & vitamins
Z44653	L-Arginine mono-Hydrochloride	(USP, BP, Ph. Eur., JP) low endotoxin pure, pharma gr.	1119-34-2	5 kg	Amino acids & vitamins
Z43645	L-Cystine	(Ph. Eur.) low endotoxin pure, pharma grade	56-89-3	5 kg	Amino acids & vitamins
637765	L-Cystine Dihydrochloride low endotoxin	pharma grade	30925-07-6	5 kg, 10 kg	Amino acids & vitamins
A1702	L-Cysteine Hydrochloride 1-hydrate	(Ph. Eur., USP) pure, pharma grade	7048-04-6	1 kg	Amino acids & vitamins
Z4B216	Folic acid crystalline	(Ph. Eur., USP) low endotoxine, pharma grade	59-30-3	5 kg	Amino acids & vitamins
631340	Glycine	Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	56-40-6	25 kg	Amino acids & vitamins
141340	Glycine	(USP, BP, Ph. Eur.) pure, pharma grade	56-40-6	1 kg, 5 kg, 25 kg	Amino acids & vitamins
A1341	L-Histidine	(Ph. Eur., USP) pure, pharma grade	71-00-1	5 kg	Amino acids & vitamins
A1716	myo-Inositol	BioChemica	87-89-8	10 kg	Amino acids & vitamins
A1340	L-Methionine	(Ph. Eur., USP) pure, pharma grade	63-68-3	1 kg	Amino acids & vitamins
Z41683	Sodium L-Glutamate 1-hydrate	(USP-NF) low endotoxin pure, pharma grade	6106-04-3	5 kg	Amino acids & vitamins
Z41940	Tris	(USP, BP, Ph. Eur.) low endotoxin pure, pharma gr.	77-86-1	1 kg, 5 kg, 10 kg, 25 kg	Buffers
633654	Tris Hydrochloride	low endotoxin pharma gr.	1185-53-1	10 kg	Buffers
142067	D(-)-Mannitol	(USP, BP, Ph. Eur.) pure, pharma grade	69-65-8	500 g, 5 kg, 25 kg	Carbohydrates
A4831	D-Mannitol low endotoxin	(Ph. Eur., BP, USP, JP) pure, pharma grade	69-65-8	1 kg, 5 kg	Carbohydrates
Z42173	D(+)-Galactose	low endotoxin (Ph. Eur.) pure, pharma grade	59-23-4	5 kg	Carbohydrates
A4992	D(-)-Sorbitol	for molecular biology	50-70-4	5 kg	Carbohydrates



<< Formulation Solutions for Product Stability

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
631621	D(+)-Sucrose	(USP-NF, BP, Ph. Eur.) low endotoxin, IPEC grade	57-50-1	25 kg	Carbohydrates
141621	D(+)-Sucrose	(USP-NF, BP, Ph. Eur., JP) pure, pharma grade	57-50-1	1 kg, 5 kg, 25 kg	Carbohydrates
Z42312	Tween® 20	(RFE, USP-NF, BP, Ph. Eur., JPE) pure, pharma grade	9005-64-5	1 L, 5 L, 25 L	Detergents
142050	Tween® 80	(USP-NF, BP, Ph. Eur.) pharma grade, BioChemica	9005-65-6	1 L, 5 L	Detergents
Z4C393	Diethylenetriaminepenta-acetic Acid Calcium and Trisodium Salt x-hydrate	(Ph. Eur.) low endotoxin IPEC grade	12111-24-9	5 kg	Salts
631632	Sodium Acetate 3-hydrate	(Ph. Eur, BP, USP) IPEC gr.	6131-90-4	5 kg, 25 kg	Salts
141632	Sodium Acetate 3-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6131-90-4	1 kg, 5 kg, 25 kg	Salts
631659	Sodium Chloride	(Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	7647-14-5	5 kg, 25 kg	Salts
Z42507	di-Sodium Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) low endotoxin pure, pharma gr.	10028-24-7	1000 g	Salts
142507	di-Sodium Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	10028-24-7	1 kg, 5 kg, 25 kg	Salts
141679	di-Sodium Hydrogen Phosphate anhydrous	(USP, BP, Ph. Eur.) pure, pharma grade	7558-79-4	1 kg, 5 kg, 25 kg	Salts
191081	Benzyl Alcohol	(Ph. Eur.) pharma grade	100-51-6	25 L, 200 L	Solvents
141081	Benzyl Alcohol	(USP-NF, BP, Ph. Eur.) pure, pharma grade	100-51-6	1 L, 5 L, 25 L, 200 L	Solvents

Advanced Conjugation & Synthesis Solutions

Our portfolio includes **high-purity products** that support emerging modalities such as antibody–drug conjugates (ADC). As conjugate formats expand toward oligonucleotide- and peptide-based variants, we have also incorporated a dedicated section on solid-phase oligonucleotide and peptide synthesis.

Conjugation Solutions for Antibody–Drug Conjugates (ADC)

High-quality products enabling controlled and consistent bioconjugation performance

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
141008	Acetic Acid glacial	(USP, BP, Ph. Eur., JP) pure, pharma grade	64-19-7	1 L, 2.5 L, 5 L, 25 L, 1000 L	Acids
141018	Citric Acid 1-hydrate	(USP, BP, Ph. Eur., JP) pure, pharma grade	5949-29-1	1 kg, 5 kg, 25 kg	Acids



<< Conjugation Solutions for Antibody–Drug Conjugates (ADC)

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
181021	Hydrochloric Acid 1 mol/l (1N)	(Reag. USP, Ph. Eur.) volumetric solution	7647-01-0	950 L	Acids
Z44653	L-Arginine mono-Hydrochloride	(USP, BP, Ph. Eur., JP) low endotoxin pure, pharma gr.	1119-34-2	5 kg	Amino acids & vitamins
631340	Glycine	Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	56-40-6	25 kg	Amino acids & vitamins
141340	Glycine	(USP, BP, Ph. Eur.) pure, pharma grade	56-40-6	1 kg, 5 kg, 25 kg	Amino acids & vitamins
A1341	L-Histidine	(Ph. Eur., USP) pure, pharma grade	71-00-1	5 kg	Amino acids & vitamins
192415		pharma grade	1310-73-2	2.5 L	Bases
A1069	HEPES	for buffer solutions	7365-45-9	25 kg	Buffers
A0964	PBS buffer (1X, Dulbecco's) - Powder		Not applicable	1000 L	Buffers
Z41940	Tris	(USP, BP, Ph. Eur.) low endotoxin pure, pharma gr.	77-86-1	1 kg, 5 kg, 10 kg, 25 kg	Buffers
141940	Tris	(USP, BP, Ph. Eur.) pure, pharma grade	77-86-1	25 kg	Buffers
631621	D(+)-Sucrose	(USP-NF, BP, Ph. Eur.) low endotoxin, IPEC grade	57-50-1	25 kg	Carbohydrates
141621	D(+)-Sucrose	(USP-NF, BP, Ph. Eur., JP) pure, pharma grade	57-50-1	1 kg, 5 kg, 25 kg	Carbohydrates
Z42312	Tween® 20	(RFE, USP-NF, BP, Ph. Eur., JPE) pure, pharma grade	9005-64-5	1 L, 5 L, 25 L	Detergents
142050	Tween® 80	(USP-NF, BP, Ph. Eur.) pharma grade, BioChemica	9005-65-6	1 L, 5 L	Detergents
141669	EDTA Disodium Salt 2-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6381-92-6	1 kg, 5 kg, 25 kg	Salts
631632	Sodium Acetate 3-hydrate	(Ph. Eur, BP, USP) IPEC gr.	6131-90-4	5 kg, 25 kg	Salts
141632	Sodium Acetate 3-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6131-90-4	1 kg, 5 kg, 25 kg	Salts
631659	Sodium Chloride	(Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	7647-14-5	5 kg, 25 kg	Salts
141655	tri-Sodium Citrate 2-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6132-04-3	1 kg, 5 kg, 25 kg	Salts
141679	di-Sodium Hydrogen Phosphate anhydrous	(USP, BP, Ph. Eur.) pure, pharma grade	7558-79-4	1 kg, 5 kg, 25 kg	Salts
141677	Sodium di-Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) for analysis, pharma grade	13472-35-0	1 kg, 25 kg	Salts
633145	N,N-Dimethylacetamide	(BP, Ph. Eur.) pharma gr.	127-19-5	200 L	Solvents
143145	N,N-Dimethylacetamide	(BP, Ph. Eur.) pure, pharma grade	127-19-5	2.5 L, 25 L, 200 L	Solvents
191954	Dimethyl Sulfoxide	(USP, BP, Ph. Eur.) pharma grade	67-68-5	1 L, 5 L, 25 L, 190 L	Solvents



<< Conjugation Solutions for Antibody–Drug Conjugates (ADC)

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
631086	Ethanol absolute	(Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	64-17-5	500 mL, 1 L, 5 L, 25 L, 200 L, 1000 L	Solvents
631085	Ethanol 96% v/v	(Ph.Eur, BP, USP) IPEC grade	64-17-5	500 mL, 1 L, 2.5 L, 5 L, 10 L, 25 L, 200 L, 1000 L	Solvents
141091	Methanol	(USP-NF, BP, Ph. Eur., ACS) pharma grade	67-56-1	1 L, 5 L, 25 L, 200 L, 1000 L	Solvents
A1101	DTT	BioChemica	3483-12-3	1 kg, 5 kg, 10 kg	Specialties

Oligonucleotide & Peptide Synthesis Solutions

High-purity chemicals for solid-phase oligonucleotide and peptide synthesis processes

Product code	Product name	Quality Grade	CAS number	Pack size	Family group
141129	Ammonia 25% (as NH ₃)	(BP, Ph. Eur.) pure, pharma grade	1336-21-6	1 L, 25 L, 200 L, 900 L	Bases
141130	Ammonia 30% (as NH ₃)	(USP-NF, BP, Ph. Eur., ACS) pure, pharma grade	1336-21-6	1 L, 2.5 L, 25 L, 200 L	Bases
631254	Dichloromethane dry (max. 0,005% water) stabilized with ~ 20 ppm of amylene	(USP-NF, BP, Ph. Eur.) pharma grade	75-09-2	200 L	Solvents
633145	N,N-Dimethylacetamide	(BP, Ph. Eur.) pharma grade	127-19-5	200 L	Solvents
143145	N,N-Dimethylacetamide	(BP, Ph. Eur.) pure, pharma grade	127-19-5	2.5 L, 25 L, 200 L	Solvents
141091	Methanol	(USP-NF, BP, Ph. Eur., ACS) pharma grade	67-56-1	1 L, 5 L, 25 L, 200 L, 1000 L	Solvents
631090	2-Propanol	(Ph. Eur, BP, USP-NF) IPEC grade	67-63-0	1 L, 2.5 L, 5 L, 25 L, 200 L, 1000 L	Solvents

Keynotes

- All amino acids with product code beginning by A are of non-animal origin!
- Our purified water solutions are prepared with 0.2 µm-filtered purified water and fully comply with the European Pharmacopoeia requirements. All concentrated raw materials used in the preparation also comply with the corresponding Pharmacopoeia.
- We can also prepare customized acid and base solutions for pH adjustment beyond the listed products, subject to minimum order quantities.
- This is a selection of raw materials for bioprocessing. If you have any other needs or requests, please contact us at biopharma@itwreagents.com and we will be glad to support you.



A232,EN;202511

AppliChem GmbH

Ottoweg 4 · DE-64291 Darmstadt · Germany · Phone +49 6151 9357 0 · Fax +49 6151 9357 11
info.de@itwreagents.com

ITW Reagents S.R.L.

Corso Milano, 31 · I-20900 Monza (MB) · Italy · Phone +39 039 9530 360 · Fax +39 039 9530 361
info.it@itwreagents.com

Panreac Química S.L.U.

C/ Garraf 2, Polígono Pla de la Bruguera · E-08211 Castellar del Vallès · (Barcelona) Spain
Phone +34 937 489 400 · Fax +34 937 489 401
info.es@itwreagents.com

itwreagents.com

