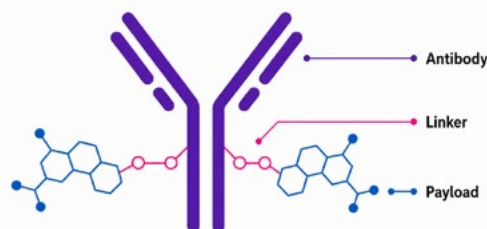




Pharma-Grade Raw Materials for ADC Manufacturing

Successful ADC manufacturing depends on consistent, pharma-grade raw materials across both small-molecule chemistry and biopharma workflows. ITW Reagents supports these critical applications through reliable manufacturing, comprehensive regulatory documentation and European production.



ITW-R capabilities for ADC manufacturing

- ✓ Pharma-grade portfolio supporting both small-molecule chemistry and biopharma processing
- ✓ Quality and regulatory documentation for supplier qualification
- ✓ Reliable manufacturing with full product traceability
- ✓ European manufacturing supporting supply continuity



Small-Molecule Chemistry

Supporting payload, linker and linker-payload synthesis

ADC manufacturing begins with small-molecule chemistry, where payloads, linkers and linker-payloads are synthesized before bioconjugation. ITW Reagents supports these critical steps with pharma-grade raw materials for process consistency and impurity control.

Application areas supported

Payload synthesis - Linker synthesis - Linker-payload assembly - Organic purification

Selected raw materials

Product code	Product name	Quality grade	CAS no.	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
143006	Hydrochloric Acid 10% w/w	(USP-NF, Ph. Eur.) pure, pharma gr.	7647-01-0	1 L, 10 L, 25 L, 200 L	Acids
193378	Hydrochloric Acid 25%	(ISO) pharma grade	7647-01-0	22.32 L	Acids
141020	Hydrochloric Acid 37%	(USP-NF, BP, Ph. Eur.) pure, pharma grade	7647-01-0	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
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
191750	Triethanolamine	(BP, Ph. Eur., USP-NF) pharma grade	102-71-6	1 L, 25 L, 60 L, 200 L	Bases

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<< Small-molecule chemistry range

Product code	Product name	Quality grade	CAS no.	Pack size	Family group
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
Z42507	di-Sodium Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) low in endotoxins pure, pharma grade	10028-24-7	1000 g	Salts
141679	di-Sodium Hydrogen Phosphate anhydrous	(USP, BP, Ph. Eur.) pure, pharma grade	7558-79-4	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
141007	Acetone	(USP, BP, Ph. Eur.) pure, pharma grade	67-64-1	1 L, 5 L, 25 L, 200 L	Solvents
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
191954	Dimethyl Sulfoxide	(USP, BP, Ph. Eur.) pharma grade	67-68-5	1 L, 5 L, 25 L, 190 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
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
191318	Ethyl Acetate	(BP, Ph. Eur.) pharma grade	141-78-6	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

Biopharma Solutions for ADC Manufacturing

Supporting antibody conjugation workflows

From antibody preparation to formulation, our portfolio supports key biopharma stages with selected high-purity raw materials from a reliable supply partner.

Application areas supported

Antibody preparation - Bioconjugation - Purification - Buffer exchange - Formulation

Selected raw materials

Product code	Product name	Quality grade	CAS no.	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
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 grade	1119-34-2	5 kg	Amino acids & vitamins
A1341	L-Histidine	(Ph. Eur., USP) pure, pharma grade	71-00-1	5 kg	Amino acids & vitamins
192415	Sodium Hydroxide 1 mol/l (1N)	pharma grade	1310-73-2	2.5 L	Bases
631687	Sodium Hydroxide pellets	(Ph. Eur, BP, USP, JP) IPEC grade	1310-73-2	1 kg, 5 kg, 10 kg, 25 kg	Bases
A1025	Bis-Tris	for buffer solutions	6976-37-0	25 kg	Buffers
A1069	HEPES	for buffer solutions	7365-45-9	25 kg	Buffers
IG2536	Imidazole pure		288-32-4	1Kg, 20Kg	Buffers
A0964	PBS buffer (1X, Dulbecco's) - Powder		Not applicable	1000 L	Buffers
Z41940	Tris	(USP, BP, Ph. Eur.) low endotoxin pure, pharma grade	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
631621	D(+)-Sucrose	(USP-NF, BP, Ph. Eur.) low endotoxin, IPEC grade	57-50-1	25 kg	Carbohydrates
142050	Tween® 80	(USP-NF, BP, Ph. Eur.) pharma grade, BioChemica	9005-65-6	1 L, 5 L	Detergents
Z42312	Tween® 20	(RFE, USP-NF, BP, Ph. Eur., JPE) pure, pharma grade	9005-64-5	1 L, 5 L, 25 L	Detergents
141270	Copper(II) Sulfate 5-hydrate	(BP, Ph. Eur.) pure, pharma grade	7758-99-8	25 kg	Salts
141512	di-Potassium Hydrogen Phosphate anhydrous	(BP, Ph. Eur.) pure, pharma grade	7758-11-4	1 kg, 25 kg	Salts
Z42507	di-Sodium Hydrogen Phosphate 2-hydrate	(USP, BP, Ph. Eur.) low in endotoxins pure, pharma grade	10028-24-7	1000 g	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

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Pharma-Grade Raw Materials for ADC Manufacturing

<< Biopharma solutions range

Product code	Product name	Quality grade	CAS no.	Pack size	Family group
141509	Potassium di-Hydrogen Phosphate	(USP-NF, BP, Ph. Eur.) pure, pharma grade	7778-77-0	1 kg, 5 kg, 25 kg	Salts
631632	Sodium Acetate 3-hydrate	(Ph. Eur, BP, USP) IPEC grade	6131-90-4	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
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
141655	tri-Sodium Citrate 2-hydrate	(USP, BP, Ph. Eur.) pure, pharma grade	6132-04-3	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
191954	Dimethyl Sulfoxide	(USP, BP, Ph. Eur.) pharma grade	67-68-5	1 L, 5 L, 25 L, 190 L	Solvents
633145	N,N-Dimethylacetamide	(BP, Ph. Eur.) pharma grade	127-19-5	200 L	Solvents
A1101	DTT	BioChemica	3483-12-3	1 kg, 5 kg, 10 kg	Specialties

Beyond ADCs

Supporting next-generation conjugates

Oligonucleotide and peptide synthesis solutions are available in our [High-Quality Raw Materials for Bioprocessing brochure \(A232\)](#).

Need something else?

This brochure includes a selection of high-purity raw materials for ADC manufacturing. Customized acid and base solutions for pH adjustment may also be prepared beyond the listed products, subject to minimum order quantities. For any other needs or requests, please contact us at biopharma@itwreagents.com and we will be glad to support you.

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