



Eastman ingredients
for pharmaceuticals

EASTMAN

Whatever your formulation challenge is, we can help you find the right solution.

For more than 100 years, Eastman has created innovative products and solutions that touch people's lives every day. For the pharmaceutical industry, we offer a variety of ingredients including actives, excipients, solvents, and cellulose esters—all which result in reliable, consistent, and effective end products. Our products are made in highly controlled and reproducible processes with dedicated equipment to ensure your formulations perform and behave consistently over time.

Eastman is a trusted supplier with a global footprint and unwavering commitment to high quality. Our highly experienced scientists leverage extensive technical and regulatory knowledge to develop novel ingredients that empower the pharmaceutical industry to formulate and adapt to evolving market trends and customer needs.

Why Eastman?

- Longstanding and dependable experience in the pharmaceutical industry
- In-house technical and regulatory expertise
- A reliable and trusted supply chain with a high focus on safety, quality, and compliance
- Global cGMP-certified production facilities and sampling capabilities

For more information on all Eastman products for pharmaceutical applications, technical support, or sample requests, visit [eastman.com/pharma](https://www.eastman.com/pharma) or contact your Eastman representative or your authorized Eastman distributor.

Excipients

Our wide variety of specialty excipients put you on the path to developing new and better cures and therapies. This includes the novel Eastman BioSustane™ SAIB NF excipient already in use in approved formulations. We also offer glacial acetic acid, cellulose acetate phthalate, cellulose acetate (CA), cellulose acetate butyrate (CAB or cellaburate), and excipients used in applications such as osmotic pump coating, taste masking, sustained-release coatings, and enteric coatings.

Active ingredients

With our active pharmaceutical ingredients (APIs), formulators can achieve desired therapeutic effects and meet regulatory requirements. Our reliable APIs have a long history of use in the pharmaceutical industry, including the USP-grade active ingredients hydroquinone and glacial acetic acid, used as an intermediate and an active ingredient throughout the world.

Solvents

Having invested 70 years in understanding what makes a good solvent, we offer a broad and diverse portfolio of effective solutions to help you successfully and safely formulate an efficient and viable manufacturing process. We produce solvents on multiple continents, offering a global supply chain.

Cellulose esters

To address performance and productivity requirements, we offer various grades of cellulose esters with a long history in pharmaceutical applications. Our portfolio includes CA and CAB to help achieve patient compliance by enabling extended/sustained-release dosage forms.

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Ingredient	Active	Excipient	Intermediate	Solvent	pH adjuster	Film former	Description
CA-320S NF/EP (cellulose acetate)		✓				✓	Osmotic coating for sustained API delivery
CA-398-10 NF/EP (cellulose acetate)		✓				✓	Osmotic coating for sustained API delivery
CAB-171-15 NF (cellulose acetate butyrate)		✓				✓	Osmotic coating for sustained API delivery
C-A-P cellulose ester NF (pellets and powder)		✓				✓	pH-sensitive polymer for enteric delivery of APIs
Eastman BioSustane™ SAIB NF		✓					Depot injectables; transdermal adhesive; emulsion stabilizer
Glacial acetic acid, USP grade	✓		✓	✓	✓		Reactive intermediate; extraction agent; acidifying agent
Hydroquinone, USP grade	✓		✓				Antioxidant; polymerization inhibitor; skin-lightening formulations
Diethylamine (DEA)			✓		✓		Reactive intermediate; acid neutralizer
Dilute acetic acid 84%			✓	✓	✓		Extraction solvent; acidifying agent
Dimethylacetamide (DMAc)			✓	✓	✓		Extraction/reaction solvent; active carrier
Dimethylamine 40% solution			✓		✓		Reactive intermediate; acid neutralizer
Dimethylamine anhydrous (DMA)			✓		✓		Reactive intermediate; acid neutralizer
Dimethylformamide (DMF)			✓	✓	✓		Extraction solvent; carrier
DMA-HCl 70% (dimethylamine hydrochloride)			✓		✓		Reactive intermediate; acid neutralizer
Monoisopropylamine (MIPA)			✓		✓		Reactive intermediate; acid neutralizer
Monomethylamine 40% aqueous solution			✓		✓		Reactive intermediate; acid neutralizer
Mono- <i>n</i> -propylamine (MNPA)			✓		✓		Reactive intermediate; acid neutralizer
<i>N</i> -ethylpyrrolidone (NEP)			✓	✓	✓		Reactive intermediate; solvent
<i>N</i> -methyl-2-pyrrolidone (NMP)			✓	✓	✓		Reactive intermediate; solvent
Propionic acid, feed grade and food grade, kosher			✓		✓		Reactive intermediate; extraction agent; acidifying agent
Triethylamine (TEA)			✓		✓		Acid neutralizer; reaction catalyst
Tri- <i>n</i> -propylamine (TNPA)			✓		✓		Acid neutralizer; reaction catalyst
Butyl acetate			✓	✓			Solvent; extraction agent
CHDM-D (cyclohexanedimethanol)			✓	✓			Reactive diluent for polyester, epoxy, and urethane resins
CHDM-D90 (90% CHDM with 10% water)			✓	✓			Reactive diluent for polyester, epoxy, and urethane resins
Ethyl acetate NF/EP			✓	✓			Extraction solvent; flavoring
Isobutyl acetate			✓	✓			Solvent; extraction agent
Isopropyl acetate			✓	✓			Solvent; extraction agent
Methyl acetate, high purity			✓	✓			Solvent; extraction agent
1,4-CHDA-HP (cyclohexanedicarboxylic acid)			✓				Reactive intermediate; mixture of cis and trans isomers
Acetaldehyde			✓				Reactive intermediate; pyridine and pentaerythritol precursor
Acetic anhydride			✓				Reactive intermediate
EAA, kosher (ethyl acetoacetate)			✓				Reactive intermediate
Propionic anhydride			✓				Reactive intermediate



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