

Products for cosmetics & personal care

Extending the options for beauty



The elements of success

You need a partner who can see the big picture when it comes to your products, your processes and your customers. Our experience and expertise in the special niches of organic chemistry, process technology and application development are at your service, providing you with a complete chain of solutions to enhance quality and profitability at every step.

Our versatile intermediates, an essential element of your winning formula, are specifically designed to add value and enhance end-product performance. Your solution to meeting the increasing demands for safer, lighter, more durable and environmentally friendly end-user products, begins here.

Innovation in everything we do

Innovation distinguishes every aspect of our business process. Developing smarter and safer solutions creates real value in new chemical applications. Focused innovation instills leadership and purpose in our business activities, improves internal processes and increases application and product competitiveness.

Delivering our promises globally

Our global presence provides you with reliable solutions and processes, consistent high quality, security of production and supply and delivery with precision. This commitment also means rapid response when product or application support is required and the very best in technical support.

Putting the care into chemicals

We take our responsibilities to heart and are committed to attentive, sustainable business practices. We minimize risks for our customers, our employees and the environment by working proactively to ensure safe products and processes.



Extending the options for beauty

A palette of ingredients to create superior products

Where do you turn when you need to create that element of surprise, that competitive edge?

Our broad portfolio of intermediates and specialties for enhancing cosmetic and personal care applications supports all ingredient manufacturers and suppliers. This palette of high quality raw materials allows you to customize solutions to meet your needs across multiple segments of production, be it in the creation of fragrances, functional ingredients, active ingredients or specialties.

We have a global presence, so wherever your operation is located, we can supply you with the necessary raw materials.

Our products for cosmetics & personal care:

Intermediates for fragrances

Aldehydes and acids for synthetic fragrances

Intermediates for active ingredients

Aldehydes for vitamin production and polyalcohols for antioxidants

Intermediates for functional products

Acids, alcohols and polyalcohols for multifunctional emollients with superior substantivity and multifunctional products

Acids, alcohols and polyalcohols for developing UV absorbers with water resistant properties featuring excellent compatibility in UV lotions

Dihydroxy acids for polyurethane dispersions used as a durable and long lasting film former with a natural feel

Allyl ethers for thickeners and silicone esters

Specialties

Boltorn™ dendritic polyester polyols

Alicyclic alcohols as building blocks and solvents

Solvents and coalescing agents

We welcome your questions. More detailed information and specifications of each product are available on www.perstorp.com or through your Perstorp sales representative.



A complete palette

Intermediates for fragrances

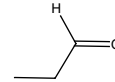
Today's cosmetic industry is closely linked with the emergence of synthetic chemistry, which enabled new and more effective ingredients to be produced in larger quantities and with purer quality. Aldehydes are employed in the synthesis of benzenoids, aliphatic aldehydes and musks.

We offer Propionaldehyde, one of the most common short aldehydes for the synthesis of a multitude of fragrances including the synthetic lily of the valley scent.

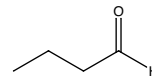
Butyraldehyde, used in trans-2-hexenal (also known as leaf scent), and Isobutyraldehyde are used in a great variety of fragrances. 2-Ethylhexanal is an aldehyde that can be used in a number of other scents.

Propionic Acid and 2-Ethylhexanoic Acid (2-EHA) are useful in many low molecular weight aromatic and aliphatic esters.

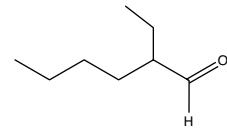
Propionaldehyde



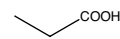
n-Butyraldehyde



2-Ethylhexanal



Propionic Acid



Intermediates for active ingredients

Isobutyraldehyde is a key raw material for the production of panthenol, the alcohol form of pantothenic acid (vitamin B5). Panthenol is a humectant, moisturizer and emollient. It binds readily to hair follicles and is a frequent component of shampoos and hair conditioners (in concentrations of 0.1-1%). It coats the hair and seals its surface; lubricating follicles and making strands appear shiny.

Pentaerythritol (Penta) is a polyalcohol employed in multi-functional antioxidants like tetradibutyl pentaerythrityl hydroxyhydrocinnamate, a highly effective, non-discoloring stabilizer to prevent deterioration of ingredients sensitive to oxidation.

Isobutyraldehyde



Pentaerythritol



Intermediates for functional products

Acids, alcohols & polyalcohols for emollients

Emollients are essential ingredients for cosmetic and personal care products, imparting soothing and moisturizing effects.

2-Ethylhexanol (2-EH) and its corresponding acid, 2-EHA, deliver excellent hydrolytic stability for developing emollients. Isobutanol, n-Butanol and n-Propanol are also alcohols used for corresponding alkyl stearates emollients.

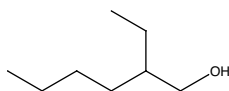
Our polyalcohols such as Neopentyl Glycol (Neo), Trimethylolpropane (TMP), Penta and Di-Pentaerythritol (Di-Penta), esterified with the adequate acids, produce emollients with greater substantivity, pigment dispersion and lubricancy than esters based on mono alcohols.

Di-Trimethylolpropane (Di-TMP) is an efficient polyalcohol for esters with a wide solubility window and high water resistance. Its low melting point makes it easy to process.

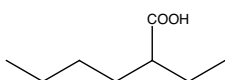
Butyl Ethyl Propanediol (BEPD) is a unique diol for esters with a wide solubility window, high hydrolytic stability and hydrophobicity.

Our polyether polyols, alkoxyates, are ethylene oxide and propylene oxide modified polyalcohols that, once esterified, combines emolliency with surfactant properties.

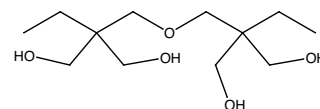
2-Ethylhexanol



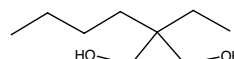
2-Ethylhexanoic Acid



Di-Trimethylolpropane



Butyl Ethyl Propanediol



2-EH for UV absorbers

The UV-B radiation produces, in the event of excessive intensity, an inflammatory reaction in the skin that is commonly termed sunburn. Sunscreen filters were developed that absorb a certain portion of the ultraviolet radiation before it can penetrate the skin. These ingredients are esters of p-methoxy cinnamic acid or other UVA or B absorption moieties with 2-EH.

2-EH imparts solubility and compatibility as well as waterproofing and, thanks to its branched structure, improved hydrolytic stability when compared to linear alcohols.

Multifunctional UV absorbers can be prepared from 2-EHA, functional moieties and a polyalcohol core such as Penta. These compounds of higher molecular weight can potentially reduce eventual migration in the skin.

Dispersing monomers for polyurethane dispersions

Polyurethane dispersions are increasingly used in cosmetics and personal care products, such as nail polish, mascara and shampoos. They are film formers with excellent hardening, adhesion, wear resistance, gloss, skin feel and waterproofing, securing higher performance than other acrylic dispersions or cellulose esters. Dihydroxy acids such as Bis-MPA impart the water dispersability of the polymer. Dimethylolbutanoic Acid (DMBA) is easier to process than Bis-MPA and the PUDs can be produced using safer solvents in lower quantities, thanks to its lower melting point and higher solubility.

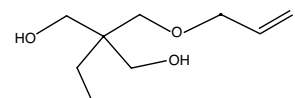
Allyl Pentaerythritol (APE) for thickeners

Thickeners are useful ingredients to adjust the viscosity of the composition for application in hand creams, gels and shampoos. Carbomer thickeners are polyacrylic polymers cross-linked with APE.

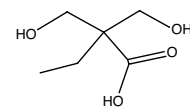
Trimethylolpropane Monoallyl Ether (TMPME) for silicone esters

TMPME is a dihydroxy monoallyl ether. It is useful for linking organic and inorganic chemistry like developing silicone esters. These emollients enhance the sun protection factor (SPF) by better dispersing the active components of a UV lotion and exhibit excellent substantivity.

Trimethylolpropane Monoallyl Ether



Dimethylolbutanoic Acid



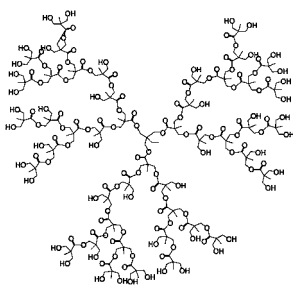
Specialties

Boltorn™ dendritic polymers

Our Boltorn™ products are hydroxyl-functional dendritic polyesters. Fully aliphatic and consisting only of tertiary ester bonds, they provide excellent thermal and chemical resistance.

Their high hydroxyl functionalities provide extensive possibilities for combining different end-group functionalities and for controlling solubility and surface activity behaviors. Their dendritic structure yields high molecular weight polymers while also securing low viscosity and unique rheological behavior. They can be used as starters for multifunctional products.

Boltorn™ dendritic polymer



Alicyclic alcohols as building blocks & solvents

Cyclic Trimethylolpropane Formal (CTF) is a liquid alcohol and is suitable as a low-odor solvent and for esters.

Trimethylolpropane Oxetane (TMPO) is a building block for protective chemistry. It is a liquid with low toxicity, containing a four-member reactive ring and one hydroxyl group.

Trimethylolpropane Oxetane



NX 795 & NX 800 coalescing agents

NX 795 is a coalescing agent effective in most typical dispersion types such as acrylics and cellulose esters. It may also be used as a plasticizer. NX 800 is a new low-odor coalescing alternative to NX 795.

Solvents

2-EH, Isobutanol, n-Butanol and n-Propanol are solvents or building blocks used in many cosmetics, pharmaceuticals and personal care ingredients.



Product data summary

Intermediates for fragrances

Acids

Products	Appearance	Color hazen max.	Purity % min.	Water % max.	Molecular weight (g/mol)
Propionic Acid (PRA)	Liquid	15	99.5	0.20	74.1
2-Ethylhexanoic Acid (2-EHA)	Liquid	10	99.5	0.10	144.2
Formic Acid	Liquid		85.0± 1		46.0

Aldehydes

Products	Appearance	Color hazen max.	Purity % min.	Water % max.	Acidity % max.
Propionaldehyde (PRAL)	Liquid	15	99.0	1.5	0.2
Isobutyraldehyde (IBAL)	Liquid	15	99.0	1.5	0.5
n-Butyraldehyde (NBAL)	Liquid	15	99.0	1.5	0.5
2-Ethylhexanal (2-EHAL)	Liquid		98.0	0.1	

Intermediates for functional products

Acids

Products	Appearance	Color hazen max.	Purity % min.	Water % max.	Molecular weight (g/mol)
Propionic Acid (PRA)	Liquid	15	99.5	0.20	74.1
2-Ethylhexanoic Acid (2-EHA)	Liquid	10	99.5	0.10	144.2

Alcohols & polyalcohols

Products	Appearance	Reactive group	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Melting point (°C)
2-Ethylhexanol (2-EH)	Liquid	1 hydroxyl	130.2	431	
Neopentyl Glycol (Neo)	Flakes	2 hydroxyl	104.2	1,077	129
Butyl Ethyl Propanediol (BEPD)	Semi-crystalline	2 hydroxyl	161.0	695	44
Trimethylolpropane (TMP)	Flakes	3 hydroxyl	135.1	1,247	59
Pentaerythritol (Penta)	Crystals	4 hydroxyl	136.4	1,645	262
Di-Trimethylolpropane (Di-TMP)	Flakes	4 hydroxyl	250.5	895	111
Di-Pentaerythritol (Di-Penta)	Crystals	6 hydroxyl	254.1	1,325	222

Alkoxyated polyalcohols*

Products	Hydroxyl functionality	Hydroxyl number (mg KOH/g)	Molecular weight (g/mol)	Viscosity (mPas, 23°C)
Polyol R2490	2	490	220	170
Polyol 3610	3	610	275	700
Polyol 4290	4	290	797	450
Polyol 4640	4	640	355	1,100
Polyol R6405	6	405	827	1,900

*Please contact us for more info on our full range of alkoxyated polyalcohols.

Allyl ethers

Products	Reactive group	Molecular weight (g/mol)	Appearance	Hydroxyl number (mg KOH/g)	Viscosity (mPas, 23°C)
Allyl Pentaerythritol (APE)	1 hydroxyl, 3 allyl	255.5	Liquid	240	20
Trimethylolpropane Monoallyl Ether (TMPME)	2 hydroxyl, 1 allyl	174.2	Liquid	640	130
Trimethylolpropane Diallyl Ether (TMPDE 80)	1 hydroxyl, 2 allyl	210.7	Liquid	280	15

Dihydroxy acids

Products	Appearance	Reactive group	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Acid value (mg/KOH/g)	Melting point (°C)
Dimethylolpropionic Acid (Bis-MPA)	Crystals	2 hydroxyl, 1 carboxyl	134.4	835	415	180
Dimethylbutanoic Acid (DMBA)	Crystals	2 hydroxyl, 1 carboxyl	148.2	755	377	110

Specialties

Dendritic polymers*

Products	Appearance	Reactive group	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Melting range (°C)
Boltorn™ H20	Amorphous	16 hydroxyl	2,100	515	80-110
Boltorn™ H30	Amorphous	32 hydroxyl	3,500	500	80-110
Boltorn™ H40	Amorphous	64 hydroxyl	5,100	490	80-110

*Please contact us for more info on our full range of Boltorn™ products.

Alicyclic alcohols

Products	Appearance	Reactive group	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Viscosity (mPas, 23°C)
Cyclic Trimethylolpropane Formal (CTF)	Liquid	1 hydroxyl	145.9	385	80
Trimethylolpropane Oxetane (TMPO)	Liquid	1 hydroxyl, 1 oxetane	115.2	485	25

Coalescers & plasticizers

Products	Type	Appearance	Boiling point (°C)	Viscosity (mPas, 23°C)
NX 795	Ester alcohol	Liquid	255	13.4
NX 800	Ester	Liquid	282	4.9

Solvents

Products	Appearance	Color hazen max.	Purity % min.	Water % max.	Acidity % max.
n-Propanol	Liquid	5	99.8	0.1	0.003
n-Butanol (NBUT)	Liquid	5	99.85	0.05	0.001
Isobutanol (IBUT)	Liquid	5	99.6	0.04	0.001
2-Ethylhexanol (2-EH)	Liquid	5	99.5	0.05	0.002



Your Winning Formula

The Perstorp Group is the world leader in several sectors of the specialty chemicals market. Few chemical companies in the world can rival its 125 years of success. Today we have a rich performance culture distilled from our long history and extensive knowledge in the chemical industry. That culture and knowledge base enables us to produce Winning Formulas for a wide variety of industries and applications.

Our products are used in the aerospace, marine, coatings, chemicals, plastics, engineering and construction industries. They can also be found in automotive, agricultural feed, food, packaging, textile, paper and electronics applications.

Our production plants are strategically located in Asia, Europe and North and South America and are supplemented by sales offices in all major markets. We can offer you a speedy regional support and a flexible attitude to suit your business needs.

If you want a chemical partner who can offer you focused innovation to enhance your product or application, which is delivered reliably and responsibly look no further. We have a winning formula waiting for you.