



# Product data summary

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# Product data summary

This brochure contains a summary of our product range. More detailed information and specifications of each product are available on [www.perstorp.com](http://www.perstorp.com) or through your Perstorp representative.

## Alcohols

	Appearance	Reactive groups (Hydroxyl functionality)	Molecular weight (g/mol)	Purity (%) min.	Hydroxyl number (mg KOH/g)	Viscosity (mPas, 20 °C)
2-Ethylhexanol	Liquid	1	130.2	99.6	431	9.7
2-Propylheptanol	Liquid	1	158.3	99.5 <sup>1)</sup>	354	15.3
CTF (Cyclic Trimethylolpropane Formal)	Liquid	1	146.2		390	80

<sup>1)</sup> Purity as C 10 alcohols

## Aldehydes

	Appearance	Reactive groups (Aldehyde functionality)	Molecular weight (g/mol)	Purity (%) min.
n-Butyraldehyde	Liquid	1	72.1	99.0
Propionaldehyde	Liquid	1	58.1	99.0
Formalin (conc. 30-50%)	Liquid	1	30.0	

## Acids

	Appearance	Reactive groups	Molecular weight (g/mol)	Purity (%) min.	Concentration (%)
Formic Acid	Liquid	1 carboxyl	46.0		75 or 85
Propionic Acid	Liquid	1 carboxyl	74.1	99.5	
Butyric Acid	Liquid	1 carboxyl	88.1	99.5	
Valeric Acid	Liquid	1 carboxyl	102.1	98.5	
Valeric Acid Pure	Liquid	1 carboxyl	102.1	99.4	
2-EHA (2-Ethylhexanoic Acid)	Liquid	1 carboxyl	144.2	99.5	
Phthalic Anhydride	Flakes	1 anhydride	148.1	99.8	

## Polyalcohols

	Appearance	Reactive groups (Hydroxyl functionality)	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Melting point (°C)
BEPD (Butyl Ethyl Propanediol)	Semi-crystalline	2	160.3	695	41
BEPD70L	Liquid	2	146.1	795	< 21
1,6-Hexanediol	Solid	2	118.2	950	42
MPD (Methyl Propanediol)	Liquid	2	90.1	1,230	Liquid
Neo (Neopentyl Glycol)	Flakes	2	104.2	1,075	129
Neo 90	Liquid (90% in water)	2	104.2	1,075	35
Trimethylpentanediol	Solid	2	146.2	765	50
TMP (Trimethylolpropane)	Flakes	3	134.2	1,254	58
Glycerine tech	Liquid	3	92.1	1,800	18
Di-TMP (Di-Trimethylolpropane)	Flakes	4	250.3	896	106-115
Penta (Pentaerythritol) mono	Crystals	4	136.4	1,645	263
Penta EXCETEQ™	Crystals	4	142.5	1,615	250
Penta nitration	Crystals	4	136.4	1,645	263
Penta ICX	Crystals	4	136.6	1,645	263
Di-Penta (Di-Pentaerythritol) 93	Crystals	6	254.1	1,325	222
Di-Penta 90	Crystals	6	255.0	1,320	222

## Polyalcohols from renewable sources

	Appearance	Reactive groups (Hydroxyl functionality)	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Melting point (°C)
Voxtar™ M100	Crystals	4	136.4	1,645	260
Voxtar™ M50	Crystals	4	136.4	1,645	260
Voxtar™ T100	Crystals	4	142.5	1,615	248
Voxtar™ T50	Crystals	4	142.5	1,615	248
Voxtar™ D100	Crystals	6	254.1	1,325	222
Voxtar™ D50	Crystals	6	254.1	1,325	222

## Plasticizers

	Appearance	Molecular weight (g/mol)	Ester content (%) min.	Viscosity (mPas, °C)
Emoltene™ 100	Liquid	447	99.5	120-130 (20)
Emoltene™ 100 IRG	Liquid	447	99.0	120-130 (20)
Emoltene™ 100 TOP	Liquid	447	99.0	120-130 (20)
Pevalen™	Liquid	472	>99.5	35 (20)

## PVC co-stabilizers

	Appearance	Product type	Melting point (°C)
Holtac™ DT	Micronized powder < 250 µm	Polyalcohols	106-115
Holtac™ M	Micronized powder < 40 µm	Polyalcohols	263
Holtac™ T	Micronized powder < 40 µm	Polyalcohols	250
Holtac™ D	Micronized powder < 40 µm	Polyalcohols	222

## Alkoxyated polyalcohols

	Appearance	Reactive groups (Hydroxyl functionality)	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Viscosity (mPas, 23 °C)
Polyol R2490	Liquid	2	220	485	150
Polyol 3165	Liquid	3	1,010	165	350
Polyol 3380	Liquid	3	444	380	360
Polyol 3610	Liquid	3	275	610	700
Polyol 3611	Liquid	3	275	610	700
Polyol 3990	Liquid	3	170	990	4,500
Polyol R3430	Liquid	3	398	425	400
Polyol R3530	Liquid	3	310	530	2,000
Polyol R3540	Liquid	3	310	540	550
Polyol R3600	Liquid	3	280	610	700
Polyol 4290	Liquid	4	800	290	450
Polyol 4360	Liquid	4	630	360	1,300
Polyol 4525	Liquid	4	430	525	3,000
Polyol 4640	Liquid	4	360	630	1,100
Polyol R4410	Liquid	4	565	410	700
Polyol R4630	Liquid	4	356	630	1,500
Polyol R4631	Liquid	4	356	630	1,400
Polyol R6405	Liquid	6	830	405	1,800

## Nonionic diol

	Appearance	Reactive groups (Hydroxyl functionality)	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Viscosity (mPas, 50 °C)
Ymer™ N120	Amorphous	2	1,000	110	60

## Hydroxy acid

	Appearance	Reactive groups	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Acid number (mg KOH/g)
Bis-MPA (Dimethylolpropionic Acid)	Crystals	2 hydroxyl, 1 carboxyl	134.1	835	415

## Allyl ethers

	Appearance	Reactive groups	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Viscosity (mPas, 23 °C)
APE (Allyl Pentaerythritol)	Liquid	1 hydroxyl, 3 allyl	255.5	240	20
TMPDE 80 (Trimethylolpropane Diallyl Ether)	Liquid	1 hydroxyl, 2 allyl	210.7	300	15
TMPDE 90 (Trimethylolpropane Diallyl Ether)	Liquid	1 hydroxyl, 2 allyl	213.9	265	20
TMPME (Trimethylolpropane Monoallyl Ether)	Liquid	2 hydroxyl, 1 allyl	174.2	640	130

## Caprolactone range

### Capa™ Monomer

	Appearance	Reactive group	Molecular weight (g/mol)	Purity (%) min.	Viscosity (mPas, 20 °C)
Capa™ Monomer	Liquid	1 lactone	114.1	99.9	7

### Capa™ Polyols

	Appearance	Reactive groups (Hydroxyl functionality)	Molecular weight (g/mol)	Polymer chemistry	Hydroxyl number (mg KOH/g)	Viscosity (mPas, °C)
Capa™ 2043	Liquid	2	400	Polyester	280	40 (60)
Capa™ 2054J	Liquid	2	550	Polyester	208	60 (60)
Capa™ 2065	Liquid	2	650	Polyester	173	80 (60)
Capa™ 2085	Solid	2	830	Polyester	140	100 (60)
Capa™ 2100J	Solid	2	1,000	Polyester	112	150 (60)
Capa™ 2101A	Solid	2	1,000	Polyester	112	150 (60)
Capa™ 2123A	Solid	2	1,250	Polyester	90	241 (60)
Capa™ 2125	Solid	2	1,250	Polyester	90	180 (60)
Capa™ 2161A	Solid	2	1,600	Polyester	70	300 (60)
Capa™ 2200J	Solid	2	2,000	Polyester	56	480 (60)
Capa™ 2201	Solid	2	2,000	Polyester	56	480 (60)
Capa™ 2201A	Solid	2	2,000	Polyester	56	385 (60)
Capa™ 2203A	Solid	2	2,000	Polyester	56	460 (60)
Capa™ 2204J	Solid	2	2,000	Polyester	56	280 (80)
Capa™ 2205	Solid	2	2,000	Polyester	56	435 (60)
Capa™ 2209	Solid	2	2,000	Polyester	56	380 (60)
Capa™ 2302A	Solid	2	3,000	Polyester	37	1,100 (60)
Capa™ 2302J	Solid	2	3,000	Polyester	37	1,100 (60)
Capa™ 2402J	Solid	2	4,000	Polyester	28	1,670 (60)
Capa™ 2403D	Solid	2	4,000	Polyester	28	1,670 (60)
Capa™ 3022	Liquid	2.4 (mixed)	240	Polyester	540	40 (60)
Capa™ 3031	Liquid	3	300	Polyester	561	170 (60)
Capa™ 3050J	Liquid	3	540	Polyester	310	160 (60)
Capa™ 3091	Liquid	3	900	Polyester	187	165 (60)
Capa™ 3201	Solid	3	2,000	Polyester	84	355 (60)
Capa™ 4101	Liquid	4	1,000	Polyester	224	340-530 (50)
Capa™ 7201A	Solid	2	2,000	Polyester: Polyether	56	315 (60)
Capa™ 7203	Solid	2	2,000	Polyester: Polycarbonate	56	1,100 (60)

### Capa™ Lactides

	Appearance	Reactive groups (Hydroxyl Functionality)	Molecular weight (g/mol)	Polymer chemistry	Renewable content %	Hydroxyl number (mg KOH/g)	Viscosity (mPas, °C)
Capa™ 8015D	Liquid	2	1,000	co-polyester diol	25	112	213 (60)
Capa™ 8025D	Liquid	2	2,000	co-polyester diol	25	56	870 (60)
Capa™ 8025E	Liquid	3	2,000	co-polyester triol	25	84	700 (60)
Capa™ 8502A	Solid	2	50,000	Thermoplastic co-polyester diol	10	2	

### Capa™ Thermoplastics

	Appearance	Reactive groups (Hydroxyl functionality)	Molecular weight (g/mol)	Melt flow index @ 80°C <sup>1)</sup>	Melt flow index @ 160°C <sup>1)</sup>	Melting point (°C)
Capa™ 6250	Pellets	2	25,000	34	>250	58-60
Capa™ 6400	Pellets	2	37,000	16	>75	58-60
Capa™ 6500	Pellets	2	50,000	2.5	18	58-60
Capa™ 6500D	Pellets	2	50,000	2.5	18	58-60
Capa™ 6506	Powder	2	50,000	2.5	18	58-60
Capa™ 6800	Pellets	2	80,000	0.3	2.4	58-60

<sup>1)</sup> Melt flow index measured with standard die, 2.16 kg weight, g/10 minutes at indicated temperature

## Speciality polymers

	Appearance	Reactive group	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Viscosity (Pas, °C)
<b>Dendritic Polymers</b>					
Boltorn™ H311	Viscous liquid	Hydroxyl groups	5,700	245	40 (23)
Boltorn™ H2004	Viscous liquid	6 hydroxyl	3,200	120	15 (23)
Boltorn™ P500	Viscous liquid	Hydroxyl groups	N/A	600	15 (23)
Boltorn™ P1000	Viscous liquid	Hydroxyl groups	N/A	470	5 (23)
Boltorn™ U3000	Liquid	Unsaturated fatty acid	6,500	15	1 (23)
Boltorn™ W3000	Semi-crystalline	Non ionic, unsaturated fatty acid	9,000	15	2 (35)
<b>Polycarbonate diols</b>					
Oxymer™ HD112	waxy	2 hydroxyl	1,000	112	0.47 (70)
Oxymer™ HD56	waxy	2 hydroxyl	2,000	56	2.4 (70)
<b>Development Polycarbonate diols</b>					
Oxymer™ M112	Viscous liquid	2 hydroxyl	1,000	112	20 (40)

## Mixed products

	Appearance	Reactive group	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Viscosity (mPas, °C)
Polyol PX	Semi-crystalline	2.7 hydroxyl	187	810	650 (50)
Polyol PX 70	Liquid (70% in water)	2.7 hydroxyl	187	810	25 (23)
Polyol TD	Liquid	1.8 hydroxyl	126	800	150 (23)

## Oxetanes

	Appearance	Reactive group	Molecular weight (g/mol)	Hydroxyl number (mg KOH/g)	Viscosity (mPas, 20 °C)
Curalite™ Ox (Trimethylolpropane Oxetane)	Liquid	1 hydroxyl, 1 oxetane	115.7	485	27
Curalite™ OxPlus (Di-Trimethylolpropane Oxetane)	Liquid	2 oxetane	214.3	-	160

## Coalescing agents

	Appearance	Type	Boiling point (°C)	Viscosity (mPas, °C)
NX 795	Liquid	Ester alcohol	255	16 (20)
NX 800	Liquid	Ester	282	5 (25)

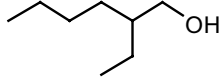
## Bio-based esters

	Appearance	Type	Boiling point (°C)	Viscosity (mPas, 20 °C)	Density (kg/m³)
RME (Rapeseed Oil Methyl Ester)	Liquid	Ester	348	6	879 (20 °C)

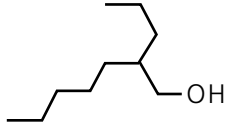
## Organic & inorganic salts

	Appearance	Molecular weight (g/mol)	Purity (%) min.	Solubility in water, 20 °C	Concentration (%)
Calcium Formate tech	Crystals	130.1	98	Soluble	
Sodium Formate	Crystals	68.0	97	Soluble	
Sodium Formate S Grade	Crystals	68.0	99	Soluble	
Sodium Formate Feed Grade	Crystals	68.0	99	Soluble	
Sodium Sulphate	Crystals	142.0	99	Soluble	
Sodium Chloride	Crystals	58.4	99	Soluble	
Potassium Formate in water	Liquid	84.1		Soluble	50-75

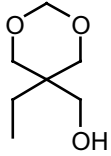
2-Ethylhexanol



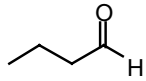
2-Propylheptanol



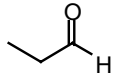
CTF  
(Cyclic Trimethylolpropane Formal)



n-Butylaldehyde



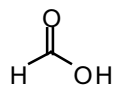
Propionaldehyde



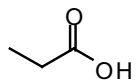
Formaldehyde



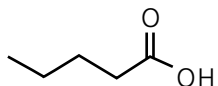
Formic Acid



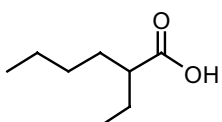
Propionic Acid



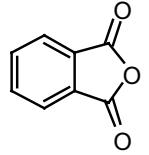
Valeric Acid



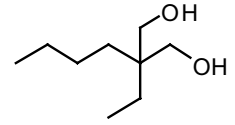
2-EHA  
(2-Ethylhexanoic Acid)



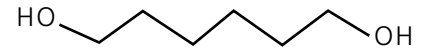
Phthalic Anhydride



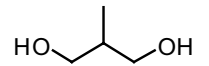
BEPD  
(Butyl Ethyl Propanediol)



1,6-Hexanediol



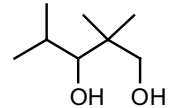
MPD  
(Methyl Propanediol)



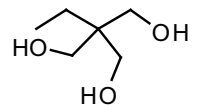
Neo  
(Neopentyl Glycol)



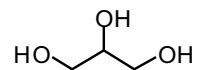
Trimethylpentanediol



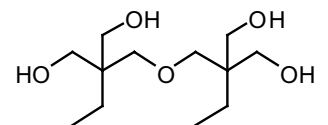
TMP  
(Trimethylolpropane)



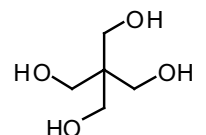
Glycerine tech



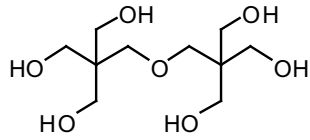
Di-TMP  
(Di-Trimethylolpropane)



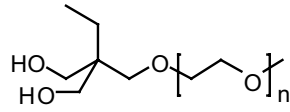
Penta  
(Pentaerythritol)



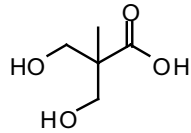
Di-Penta  
(Di-Pentaerythritol)



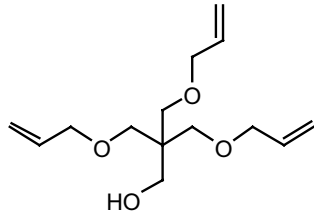
Nonionic Diol  
(Ymer N120)



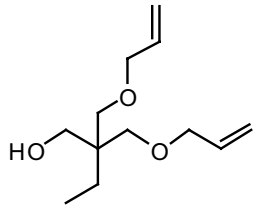
Bis-MPA  
(Dimethylolpropionic Acid)



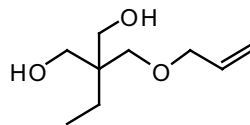
APE  
(Allyl Pentaerythritol)



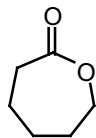
TMPDE  
(Trimethylolpropane Diallyl Ether)



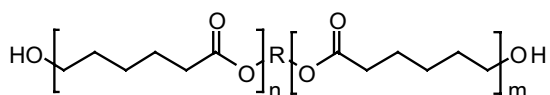
TMPME  
(Trimethylolpropane Monoallyl Ether)



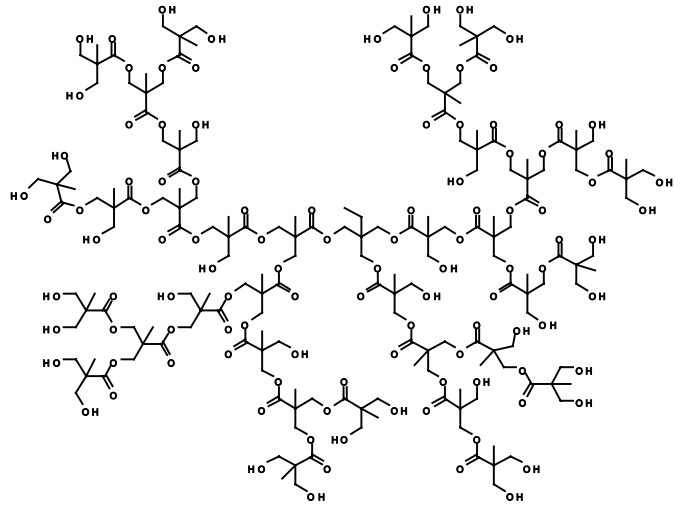
Capa™ Monomer



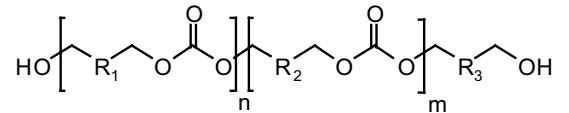
Capa™ Polyol



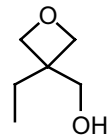
Dendritic polymer



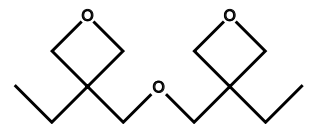
Polycarbonate diol



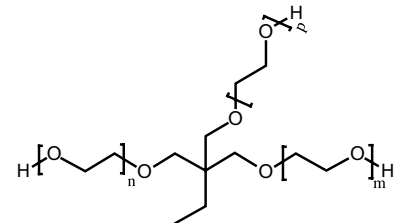
Curalite™Ox  
(Trimethylolpropane Oxetane)



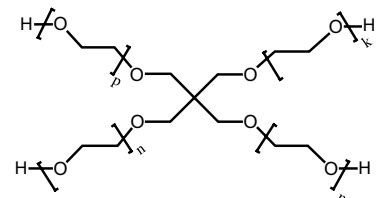
Curalite™OxPlus  
(Di-Trimethylolpropane Oxetane)



Trifunctional ethoxylated polyol



Tetrafunctional ethoxylated polyol







### Carbon source for intumescent systems

	Appearance	Water solubility (%)	Melting point (°C)	Hydroxyl number (mg KOH/g)
Charmor™ PM40	Micronized powder < 40 µm	5.3	263	1,645
Charmor™ PT40	Micronized powder < 40 µm	4.7	250	1,615
Charmor™ DP40	Micronized powder < 40 µm	0.2	222	1,325
Charmor™ PM15	Micronized powder < 15 µm	5.3	263	1,645
Charmor™ DP15	Micronized powder < 15 µm	0.2	222	1,325

### Feed additives

	Appearance	Application area	Active ingredients
Butyric acid	Liquid	Feed additive raw material	Butyric acid
Formic Acid 75/85%	Liquid	Silage and preservation	Formic acid
ProPhorce™ AC 600	Liquid	Acidifier, buffered	Formic acid/Sodium formate
ProPhorce™ AC 200	Powder	Acidifier, calcium source	Calcium formate
ProPhorce™ AC 299	Powder	Acidifier, DEB enhancer	Sodium formate
Propionic Acid	Liquid	Mould inhibitor, acidifier	Propionic acid
ProSid™ MI 700	Liquid	Feed and grain preservation	Propionic acid and its glycerol esters
Product family	Appearance	Application area	Active ingredients
ProSid™ MI	Liquid & powder	Mould inhibitors	Organic acids and salts of acids
ProSid™ TB	Powder	Toxin binders	Mineral absorbents
ProSid™ FL	Liquid & powder	Preservative for liquid feed	Organic acids and salts of acids
ProPhorce™ AC	Liquid & powder	Acidifiers for feed	Organic acids and salts of acids
ProPhorce™ PH	Liquid & powder	Antibacterials for feed	Organic acids, salts of acids and essential oils
ProPhorce™ BD	Liquid & powder	Antibacterials for feed	Organic acids, salts of acids and essential oils
ProPhorce™ SR	Liquid & powder	Gut health enhancer	Glycerol butyrines
ProPhorce™ SA	Liquid & powder	Antibacterials for feed	Organic acids and salts of acids
ProFare™ EZ	Liquid & powder	Enzymes for feed	Enzymes
ProTain™ OT	Liquid & powder	Antioxidants for pet food & feed	Anti-oxidants
ProTain™ NA	Liquid & powder	Natural antioxidants for pet food & feed	Natural anti-oxidants
ProMyr™ NT	Liquid & powder	Silage additives - grass	Organic acids and salts of acids
ProMyr™ XR	Liquid	Silage additives - extra requirements	Organic acids and salts of acids
ProMyr™ TR	Liquid	Silage additives - TMR stabilizers	Organic acids and salts of acids

### Food additives

	Appearance	Application area	Active ingredients
Profina™ CP	Powder	Food preservative	Calcium propionate
Profina™ SP	Powder	Food preservative	Sodium propionate



## A global leader in high growth niches

The Perstorp Group, a trusted world industrial leader, places focused and market-driven innovation at your fingertips. Our culture of performance builds on 135 years of experience and represents a complete chain of solutions in organic chemistry, process technology and application development.

As the global leader in high growth niches, such as powder and UV cured coatings, plasticizers, synthetic lubricants and grain preservation, we are committed to develop products providing essential properties to enhance the quality, performance and profitability of your products and processes. This is how we enable you to meet market demands for safer, lighter, more durable, economical effective and sustainable end-products for the automotive, construction, agriculture, packaging, transportation and consumer goods.

Our unique integrated production platform is backed by reliable business practices and a global commitment to responsiveness and flexibility. Consistent high quality, capacity and delivery security are ensured through strategic production plants in Asia, Europe and North America, as well as sales offices in all major markets. Likewise, we combine product and application assistance with the very best in technical support.

As we look to the future, we strive for the development of smarter and safer products and sustainable processes that reduce environmental impact and create real value in end-products. This principle of proactive innovation and responsibility applies not only to our own business, but also to our work with yours. In fulfilling it, we partner with you to create a winning formula that benefits your business – as well as the people it serves.

Discover your winning formula at [www.perstorp.com](http://www.perstorp.com)