

Intermediates

# Intermediates for the coatings industry

 **BASF**  
We create chemistry

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# BASF – The Chemical Company

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**BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics, performance products and crop protection products to oil and gas. We combine economic success with environmental protection and social responsibility. Through science and innovation, we enable our customers in nearly every industry to meet the current and future needs of society. Our products and solutions contribute to conserving resources, ensuring nutrition and improving quality of life. We have summed up this contribution in our corporate purpose: We create chemistry for a sustainable future.**

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## **Top intermediates supplier**

The BASF Group's Intermediates division develops, produces and markets a comprehensive portfolio of more than 600 intermediates around the world. The most important of the division's product groups include amines, diols, polyalcohols, acids and specialties. Among other applications, intermediates are used as starting materials for coatings, plastics, pharmaceuticals, textile fibers, detergents and crop protectants. Innovative intermediates from BASF help to improve the properties of final products and the efficiency of production processes. The ISO 9001 certified Intermediates division operates plants at production sites in Europe, Asia and the Americas.



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## Listening makes the difference!

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We have supplied the coatings industry for many years with a wide range of high-quality intermediates for the production of modern coatings. Binders, crosslinking agents and reactive diluents as well as solvents and additives form part of our portfolio. Our integrated global production and logistics Verbund enables us to supply our customers around the globe flexibly and reliably. We foster and support the growth of our customers at all stages of the coatings value chain.

In close cooperation with our customers, we also develop new intermediates that are specifically adapted to the needs of the coatings industry. We support the development of new businesses and contribute to the improvement of existing formulations. Intensive communication with our customers forms the basis of our work.

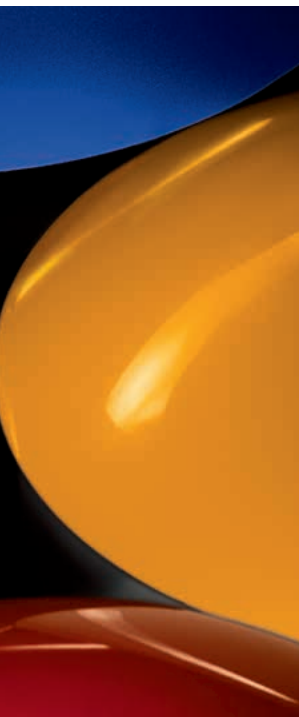
We continuously expand our expertise especially for the coatings industry, acquiring specific knowledge in this field. In the future we intend to support and promote innovations in the various business areas of this industry even more systematically and faster than ever to help our customers to keep growing profitably.

It is listening that makes the difference! By offering a wide range of innovative approaches and methods we strive for a target-oriented dialog with you as our customer. In this way, too, we promote our goal of helping you to be more successful.

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*Focusing on coatings industry needs, we organize professional innovation workshops, develop new products in joint projects and offer technical support.*





## Focus on customer needs

*We support our customers in improving existing products, developing new products and choosing intermediates that are optimally suited to their needs. The application laboratory is dedicated to coatings and designed to test intermediates required for the production of binders and coating formulations.*

### Innovation workshops

We organize professional innovation workshops with selected industry experts. These are important tools designed to help us to develop opportunities for future business in close communication with our customers.

### Joint development projects

Together with our customers, we develop new products in joint projects. In this way we help our customers to set trends in their specific applications, establish new technologies in the marketplace and stay successful in the long term.





## Coatings laboratory and technical support


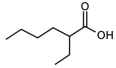
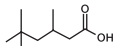
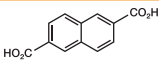

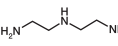



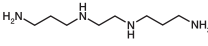
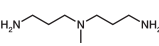
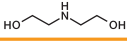



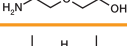
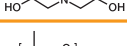





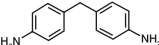
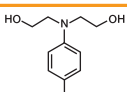

Our skilled staff, all of them educated technical experts familiar with specific coatings industry requirements, can advise our customers in selecting the intermediates that meet their individual needs best: in our application laboratory at the BASF Verbund site in Ludwigshafen, we test intermediates that are suitable for the production of binders and paint formulations. This underlines our role as an expert development partner for the coatings industry.

*We offer broad expertise in a wide range of high-quality intermediates for manufacturing modern coatings. With our global reliability and flexibility as well as our clear dedication to innovation we strive to meet the needs of customers in the coatings industry.*

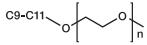





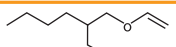
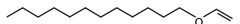

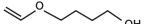
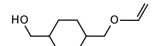

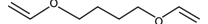
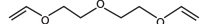
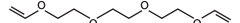
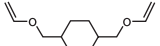







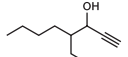



*For our customers in the coatings industry we support the development of new businesses and contribute to the improvement of existing formulations. It is listening that makes the difference! Because we favor a dialog with our customers that is clearly focused on results, we offer a range of innovative approaches and methods.*

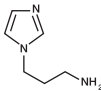







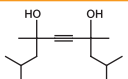
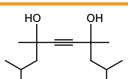
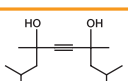
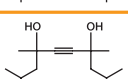
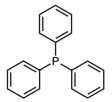

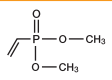
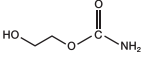
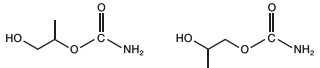
# Product portfolio

Products	Formula	CAS No.	Solvent-borne and high-solids coatings	Water-borne coatings	Powder coatings	UV coatings	100% Systems
<b>Acids</b>							
Formic acid 99%		64-18-6		■			
2-Ethylhexanoic acid		149-57-5	■				
Isononanoic acid		3302-10-1	■			■	■
2,6-Naphthalenedicarboxylic acid (HNDA)*		1141-38-4			■		
<b>Amines</b>							
Ethylenediamine		107-15-3	■	■			■
Diethylenetriamine		111-40-0	■	■			
1,3-Diaminopropane		109-76-2	■	■			■
Neopentanediamine (2,2-Dimethyl-propane-1,3-diamine)		7328-91-8	■	■			■
3-(Dimethylamino)propyl-amine		109-55-7		■			
N,N'-Bis-(3-aminopropyl) ethylenediamine, N4-Amine S		10563-26-5	■	■			■
N,N-Bis-(3-aminopropyl) methylamine		105-83-9	■	■			■
Diethanolamine		111-42-2		■			
N-Methylethanolamine		109-83-1		■		■	
N,N-Dimethylethanolamine S		108-01-0		■			
N,N-Diethylethanolamine		100-37-8		■			
2-(2-Aminoethoxy)ethanol		929-06-6		■			
Diisopropanolamine		110-97-4		■			
Polyetheramine D 2000		9046-10-0					■
Polyetheramine T 5000		64852-22-8					■
Triethylamine, TEA		121-44-8		■			
Hexylamine		111-26-2	■				
Benzylamine		100-46-9	■				
4,4'-Methylenedianiline		101-77-9	■				
N,N-Diethanol-p-toluidine		3077-12-1					■
N,N-Diisopropanol-p-toluidine		38668-48-3					■

Products	Formula	CAS No.	Solvent-borne and high-solids coatings	Water-borne coatings	Powder coatings	UV coatings	100% Systems
<b>Polyalcohols and derivatives</b>							
1,4-Butanediol		110-63-4	■	■	■	■	■
1,5-Pentanediol		111-29-5	■	■	■	■	■
HDO® 1,6-Hexanediol		629-11-8	■	■	■	■	■
Neol® Neopentylglycol, NPG		126-30-7	■	■	■	■	■
Hydroxypivalic neopentylglycol ester, HPN		1115-20-4	■	■	■	■	■
TMP®, Trimethylolpropane		77-99-6	■	■	■	■	■
PolyTHF® 250, 650 S, 1000, 1000 S, 1400, 1800, 2000, 2000 S		25190-06-1	■	■	■	■	■
Capromer™ M (epsilon-caprolactone)		502-44-3	■	■	■	■	■
Capromer™ PD4-05 (polycaprolactone)		36890-68-3	■	■	■	■	■
Capromer™ PT1-05 (polycaprolactone)		37625-56-2	■	■	■	■	■
Capromer™ PD1-10 (polycaprolactone)		69089-45-8	■	■	■	■	■
Capromer™ PD1-20 (polycaprolactone)		69089-45-8	■	■	■	■	■
delta-Valerolactone		542-28-9	■	■	■	■	■
tert.-Amyl alcohol		75-85-4	■	■	■	■	■
2-Mercaptoethanol		60-24-2	■	■	■	■	■
<b>Speciality solvents</b>							
N-Methylpyrrolidone		872-50-4	■	■	■	■	■
N-Ethylpyrrolidone		2687-91-4	■	■	■	■	■
Ethylene carbonate S		96-49-1	■	■	■	■	■
Propylene carbonate S		108-32-7	■	■	■	■	■
gamma-Butyrolactone		96-48-0	■	■	■	■	■
Proglyme*		111109-77-4	■	■	■	■	■
Butyl Diglyme*		112-73-2	■	■	■	■	■
Ethyl Diglyme*		112-36-7	■	■	■	■	■
Tetraglyme*		143-24-8	■	■	■	■	■

Products	Formula	CAS No.	Solvent-borne and high-solids coatings	Water-borne coatings	Powder coatings	UV coatings	100% Systems
Higlyme*		366009-01-0	■	■			
1,3-Dioxolane*		646-06-0	■	■			
<b>Vinyl Ethers and N-Vinyl compounds</b>							
<i>n</i> -Butyl vinyl ether		111-34-2	■				
<i>iso</i> -Butyl vinyl ether		109-53-5	■				
<i>tert.</i> -Butyl vinyl ether		926-02-3	■				
Cyclohexyl vinyl ether		2182-55-0	■				
2-Ethylhexyl vinyl ether		103-44-6	■				
Dodecyl vinyl ether		765-14-0	■				
Octadecyl vinyl ether		930-02-9	■				
Hydroxybutyl vinyl ether		17832-28-9	■	■			
1,4-Cyclohexane dimethanol monovinyl ether		114651-37-5	■				
3,4-Dihydro-2H-pyran		110-87-2				■	
Butanediol divinyl ether		3891-33-6				■	
Diethyleneglycol divinyl ether		764-99-8				■	
Triethyleneglycol divinyl ether		765-12-8				■	
1,4-Cyclohexane dimethanol divinyl ether		17351-75-6				■	
N-Vinyl-2-pyrrolidone		88-12-0				■	
N-Vinyl caprolactam, NVC		2235-00-9				■	
N-Vinylimidazole		1072-63-5				■	
<b>Catalysts and additives</b>							
Imidazole		288-32-4		■			■
2-Methylimidazole pure		693-98-1	■		■		■
2-Ethylimidazole ultra pure		1072-62-4	■				■
2-Ethyl-4-methylimidazole		931-36-2	■				■
4-Ethyl-1-octyne-3-ol		5877-42-9	■				
1-Ethynyl-1-cyclohexanol		78-27-3	■				



Products	Formula	CAS No.	Solvent-borne and high-solids coatings	Water-borne coatings	Powder coatings	UV coatings	100% Systems
Lupragen® API		5036-48-6	■				■
Lupragen® N 100		98-94-2	■				■
Lupragen® N 101		108-01-0	■				■
Lupragen® N 103		103-83-3	■				■
Lupragen® N 201, 202, 203		280-57-9	■				■
Lupragen® N 700		6674-22-2	■				■
Lupragen® DMI		1739-84-0	■				■
Lupragen® NMI		616-47-7	■				■
TMDD 100%		126-86-3		■			
TMDD 50% BG		126-86-3		■			
TMDD 50% EG		126-86-3		■			
TMDD 50% PG		126-86-3		■			
Triphenylphosphine pellets		603-35-0	■				
Vinylphosphonic acid*		1746-03-8		■		■	
Vinylphosphonic acid dimethylester*		4645-32-3		■		■	
Hydroxyethylcarbamate* (HEC)		5395-01-7	■				
Hydroxypropylcarbamate* (HPC)		108-32-7	■				

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## Contact us

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