



*Chemicals Division
Product Catalog*

We don't make your products.
We help make them better.

BASF

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BASF — The logical choice for chemical products

As one of the world's leading chemical companies, BASF produces and markets thousands of chemical products, including oil and gas, chemicals, agricultural products, plastics, fibers and dyestuffs, and consumer products.

BASF Group worldwide sales for 1996 were more than \$34 billion. Since 1990, BASF Group has invested more than \$16 billion in tangible assets such as new plants, product development, and application development centers.

BASF Corporation is the North American member of BASF Group. Headquartered in Mount Olive, New Jersey, BASF Corporation operates more than 40 major production sites in the United States, Mexico, and Canada.

With 1996 sales of \$6.3 billion, BASF Corporation ranks among the top ten chemical companies in the United States. Since 1990, the company has invested more than \$2.5 billion in the NAFTA region.

At BASF, we focus on our customers. We operate so as to continuously improve the quality of our products and service. We are dedicated to environmental excellence and safety. We have a long history of innovation, a solid reputation for developing effective new processes, and an enviable record of bringing new products to the marketplace promptly.

BASF Corporation offers a wide product range that includes:

- chemical intermediates
- coatings and colorants
- carpet, textile and industrial fibers
- dyes and textile chemicals
- polyurethane chemicals
- elastomers and foams
- polystyrene and engineering plastics
- agricultural products and animal feed premixes
- vitamins, pharmaceuticals and cosmetic chemicals
- performance chemicals

Within BASF Corporation, the **Chemicals Division** represents the traditional core business, with sales totaling more than \$1.5 billion. Our major integrated production sites are located in Freeport, Texas; Geismar, Louisiana; Washington, New Jersey; Whitestone, South Carolina, and Wyandotte, Michigan.

The Chemicals Division offers expertise in such core technologies as:

- acetylene chemistry
- acrylic acid chemistry
- amine chemistry
 - amination
 - reductive amination
 - acrylonitrile reactions
 - alkoxylation
 - ethylene imine reactions
- alkoxylation
- oxo chemistry
- HCN reaction
- phosgenation
- heterocycles
- hydrogenation
- biotechnology

The Chemicals Division operates **major production sites** at Geismar, Louisiana, and Freeport, Texas. At Geismar we produce acetylenic chemicals (Butanediol, Tetrahydrofuran, Polytetrahydrofuran, N-Methyl pyrrolidone, N-Vinyl and Polyvinyl pyrrolidone). The site also includes a Specialty Amines plant, production units for Aniline and Glyoxal, and a fully integrated ethylene/ethylene oxide facility (ethylene glycol, derivatives, and fuel additives).

The Freeport site produces acrylic acid, acrylic monomers, oxo chemicals (Butanol, 2-Ethylhexanol), and nylon/caprolactam chemistry.

A wide range of specialty products are produced at the Washington, New Jersey and Whitestone, South Carolina sites.

This booklet provides information on more than 700 compounds BASF Corporation has available for prompt shipment to your operations. More than 1,000 other organic intermediates are also available from BASF Group members around the world. Catalogs and data sheets for BASF products are available upon request.

We invite you to take advantage of our expertise and welcome the opportunity to serve all your chemical needs. BASF technical representatives can demonstrate how our capabilities and special services will benefit your company and make **BASF the logical choice for meeting your chemical needs.**

BASF Chemicals Division

- Chemical Intermediates
- Industrial Organics
- Specialty Products

Acid Chlorides and Chloroformates

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
4-t-Butyl cyclohexylchloroformate $(\text{CH}_3)_3\text{C}-\text{C}_6\text{H}_{11}-\text{OCOCI}$	42125-46-2	218.7	30 Decomposition	-40 to -35	97.0
4-Chlorobutyryl chloride $\text{ClCH}_2\text{CH}_2\text{CH}_2\text{COCl}$	4635-59-0	141.0	114 to 116 (14.0 kPascal)	-47	> 99.0
3-Chloropropionyl chloride $\text{ClCH}_2\text{CH}_2\text{COCl}$	625-36-5	127.0	45 to 55 (27 mbar)	-32	> 95.0
Diethylcarbamoyl chloride $(\text{C}_2\text{H}_5)_2\text{NCOCl}$	88-10-8	135.6	121 to 123 (133 mbar)	-32	> 99.0
Diglycol bis chloroformate $\text{O}(\text{CH}_2\text{CH}_2\text{OCOCI})_2$	106-75-2	231.0	100 (1 mbar)	5 to 6	> 98.0
Dimethylcarbamoyl chloride $(\text{CH}_3)_2\text{NCOCl}$	79-44-7	107.5	167 to 168 (775 mm Hg)	-33	> 99.0
2-Ethylhexanoyl chloride $\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{C}_2\text{H}_5)\text{COCl}$	760-67-8	162.7	73 to 75 (27 mbar)	< -75	> 99.0
2-Ethylhexylchloroformate $\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{C}_2\text{H}_5)\text{CH}_2\text{OCOCI}$	24468-13-1	192.7	100 (37 mbar)	< -55	> 98.0
Isobutyryl chloride $(\text{CH}_3)_2\text{CHCOCl}$	79-30-1	106.6	92 to 94	-70	> 99.0
Neodecanoyl chloride $(\text{CH}_3)_3\text{C}(\text{CH}_2)_5\text{COCl}$	40292-82-8	190.7	100 (2.7 kPascal)	-85	> 99.0
Oleoyl chloride $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COCl}$	112-77-6	300.9	193 (4 mm Hg)	-46	98.0
Pivaloyl chloride $\text{CH}_3\text{C}(\text{CH}_3)_2\text{COCl}$	3282-30-2	120.6	103 to 108	-58 to -56	> 99.0
Propionyl chloride $\text{CH}_3\text{CH}_2\text{COCl}$	79-03-8	92.5	77 to 79	-94	> 99.0

Acid Chlorides and Chloroformates

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Stearoyl chloride $\text{CH}_3(\text{CH}_2)_n\text{COCl}$ $n = 10 \text{ to } 18$	112-76-5	303.0	174 to 178 (2 mm Hg)	7	>98.0

Acrylates

	Acrylic acid, glacial $\text{CH}_2=\text{CHCOOH}$ $\text{O}=\text{C}$	79-10-7	72.0	141	13	> 99.7
The Development Group	Butanediol monoacrylate $\text{CH}_2=\text{CHCOO}(\text{CH}_2)_4\text{OH}$	2478-10-6	144.2	95 (0.1 mm Hg)	-80	> 94.0
	Butyl acrylate $\text{CH}_2=\text{CHCO}(\text{CH}_2)_3\text{CH}_3$ $\text{O}=\text{C}$	141-32-2	128.2	147.8	-65	> 99.7
The Development Group	tert-Butyl acrylate $\text{CH}_2=\text{CHCOOC}(\text{CH}_3)_3$	1663-39-4	128.2	61 to 63 (60 mm Hg)	-69	> 99.0
The Development Group	Tertiary butyl methacrylate $\text{CH}_2=\text{C}(\text{CH}_3)-\text{C}(=\text{O})-\text{O}-\text{C}(\text{CH}_3)_3$	585-07-9	142.2	~136	~-48	> 99.0
The Development Group	Dihydrodicyclopentadienyl acrylate $\text{CH}_2=\text{CH}-\text{C}(=\text{O})-\text{O}-\text{C}_{10}\text{H}_{14}$	12542-30-2	204.3	77	-36	> 95.0
	Ethyl acrylate $\text{CH}_2=\text{CHCOCH}_2\text{CH}_3$ $\text{O}=\text{C}$	140-88-5	100.1	100	-72	> 99.8
	2-Ethylhexyl acrylate $\text{CH}_2=\text{CHCOCH}_2\text{CH}(\text{CH}_2)_3\text{CH}_3$ $\text{O}=\text{C}$	103-11-7	184.3	229	-90	> 99.6
	Isobutyl acrylate $\text{CH}_2=\text{CHCOCH}_2\text{CH}(\text{CH}_3)_2$ $\text{O}=\text{C}$	106-63-8	128.2	138	-61	> 99.5
The Development Group	Lauryl acrylate $\text{CH}_2=\text{CH}-\text{C}(=\text{O})-\text{O}-\text{C}_{12}\text{H}_{25}$	2156-97-0	240.4/ 268.4	~120	~-8	> 95.0

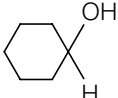
Acrylates

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Methyl acrylate $\text{CH}_2=\text{CH}-\overset{\text{O}}{\underset{\text{O}}{\parallel}}\text{C}-\text{CH}_3$	96-33-3	86.1	80	-75	> 99.8
Stearyl acrylate $\text{CH}_2=\text{CH}-\overset{\text{O}}{\underset{\text{O}}{\parallel}}\text{C}-\text{O}-\text{C}_{18}\text{H}_{37}$	4813-57-4	324	>200	30	> 90.0
Vinyl propionate $\text{CH}_2=\text{CH}-\text{O}-\overset{\text{O}}{\underset{\text{O}}{\parallel}}\text{C}-\text{CH}_2-\text{CH}_3$	105-38-4	100.1	~95	-80	> 99.6

The
Development
Group

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Development
Group

Alcohols, Mono and Polyhydric

t-Amyl alcohol (CH_3) ₃ CCH ₂ OH	75-85-4	88.2	101	-8	99.0
1,4-Butanediol HOCH ₂ CH ₂ CH ₂ CH ₂ OH	110-63-4	90.1	230	< 19	> 99.5
2,3-Butanediol $\text{CH}_3\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_3$	513-85-9	90.1	183 to 184	25	> 95.0
1,2,4-Butanetriol (BTO) $\text{HOCH}_2\text{CH}(\text{OH})\text{CH}_2\text{CH}_2\text{OH}$	3068-00-6	106.1	320	-20	> 98.0
n-Butanol CH ₃ (CH ₂) ₃ OH	71-36-3	74.1	117 to 118	-89	> 99.8
1,4-Butenediol (2-Butene-1,4-diol) HOCH ₂ CH=CHCH ₂ OH	110-64-5	88.1	142 to 145 (3.0 kPascal)	10	> 98.5
Butyne-1-ol-3 (55% solution in water) $\text{CH}\equiv\text{CCH}(\text{OH})\text{CH}_3$	2028-63-9	70.1	94 to 96	~ -12	> 54.0
1,4-Butynediol (2-Butyne-1,4-diol) HOCH ₂ C≡CCCH ₂ OH	110-65-6	86.1	238	54 to 57	> 99.0
Cyclohexanol 	108-93-0	100.2	160 to 161	20 to 22	> 99.0

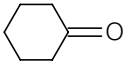
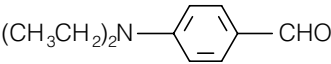
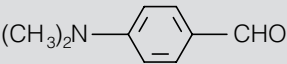
Alcohols, Mono and Polyhydric

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Ethylene chlorohydrin $\text{ClCH}_2\text{CH}_2\text{OH}$	107-07-3	80.5	128.7	-62.6	≥ 99.0
2-Ethylhexanol $\begin{array}{c} \text{CH}_3(\text{CH}_2)_3\text{CHCH}_2\text{OH} \\ \\ \text{CH}_2\text{CH}_3 \end{array}$	104-76-7	130.2	184	-70	> 99.5
1,6-Hexanediol (HDO®) $\text{HOCH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	629-11-8	118.2	253 to 260	40 to 42	> 96.0
Hydroxyacetone (Acetol) $\text{CH}_3\text{COCH}_2\text{OH}$	116-09-6	74.1	38	-6	96.0
Hydroxypivalic acid neopentyl glycol ester (HPN) $\begin{array}{cc} \text{CH}_3 & \text{CH}_3 \\ & \\ \text{HOCH}_2\text{C} & \text{COOCH}_2\text{CCH}_2\text{OH} \\ & \\ \text{CH}_3 & \text{CH}_3 \end{array}$	1115-20-4	204.3		46 to 50	> 97.5
Isoamyl alcohol (3-methylbutanol-1) $\begin{array}{c} \text{CH}_3\text{CHCH}_2\text{CH}_2\text{OH} \\ \\ \text{CH}_3 \end{array}$	123-51-3	88.2	130 to 132	< -70	> 97.5
Isobutanol $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$	78-83-1	74.1	108	-108	> 99.5
2-Mercaptoethanol (2-ME) $\text{HSCH}_2\text{CH}_2\text{OH}$	60-24-2	78.1	154 to 161		> 98.5
3-Methyl-2-butene-1-ol (Prenol) $\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3\text{C}=\text{CHCH}_2\text{OH} \end{array}$	556-82-1	86.1	139 to 140		> 98.0
2-Methyl-3-buten-2-ol (MBE) $\text{H}_2\text{C}=\text{CHC}(\text{CH}_3)_2\text{OH}$	115-18-4	86.1	96 to 98.5	-28	> 98.0
2-Methyl-3-butyne-2-ol (MBY) $\begin{array}{c} \text{CH}_3 \\ \\ \text{HC}\equiv\text{CCCH}_3 \\ \\ \text{OH} \end{array}$	115-19-5	84.1	102 to 105	3	> 99.0

Alcohols, Mono and Polyhydric

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
NEOL® Neopentylglycol $\begin{array}{c} \text{CH}_3 \\ \\ \text{HOCH}_2\text{CCH}_2\text{OH} \\ \\ \text{CH}_3 \end{array}$ flake molten slurry 90%	126-30-7	104.2	207 to 212 207 to 212 106 to 118	125 to 130 125 to 130 34 to 41	> 99.0 > 99.0 > 99.0 (dry basis)
1,5-Pentanediol HOCH ₂ (CH ₂) ₃ CH ₂ OH	111-29-5	104.2	240 to 244	-16	> 97.0
PolyTHF® Polyether diol HO[(CH ₂) ₄ O] _n H	25190-06-1	250 650 1000 1800 2000 2900		-15 18 24 27 30 28	
Propargyl alcohol HC≡CCH ₂ OH	107-19-7	56.1	114 to 115	-53	> 99.3

Aldehydes and Ketones

Cyclohexanone 	108-94-1	98.2	156.7	-45	99.8
Diethyl ketone CH ₃ CH ₂ COCH ₂ CH ₃	96-22-0	86.1	100 to 102	-39	≥ 99.0
4-Diethylaminobenzaldehyde $(\text{CH}_3\text{CH}_2)_2\text{N}-\text{C}_6\text{H}_4-\text{CHO}$ 	120-21-8	177.2	174	37 to 40	> 97.5
4-Dimethylaminobenzaldehyde $(\text{CH}_3)_2\text{N}-\text{C}_6\text{H}_4-\text{CHO}$ 	100-10-7	149.2	166	70	> 97.0
Glutaraldehyde 25%, 50% OHC(CH ₂) ₃ CHO	111-30-8	100.1	100	-5 -15	24.0 to 26.0 49.0 to 51.0
Glyoxal 40% OHC—CHO	107-22-2	58	104	-14	39.0 to 41.0

Aldehydes and Ketones




Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
2-Methyl-1-pentanal (2-Methylvaleraldehyde) $\begin{array}{c} \text{CH}_3\text{CH}_2\text{CH}_2\text{CHCHO} \\ \\ \text{CH}_3 \end{array}$	123-15-9	100.2	119 to 120	-100	> 98.0
Methylglyoxal dimethylacetal (MGDA) $\begin{array}{c} \text{CH}_3\text{COCHOCH}_3 \\ \\ \text{OCH}_3 \end{array}$	6342-56-9	118.1	143 to 147	-56	> 98.0
Michler's ethyl ketone (N,N,N',N'-Tetraethyl-4,4'-diaminobenzophenone) $(\text{CH}_3\text{CH}_2)_2\text{N}-\text{C}_6\text{H}_4-\text{CO}-\text{C}_6\text{H}_4-\text{N}(\text{CH}_2\text{CH}_3)_2$	90-93-7	324.5		94.5 to 95	> 95.0





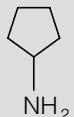
Amides and Ureas

N,N-Dimethylacetamide (DMAC) $\text{CH}_3\text{CON}(\text{CH}_3)_2$	127-19-5	87.1	165.5	-20	99.5
Dimethylformamide $\text{HCON}(\text{CH}_3)_2$	68-12-2	73.1	153	-60.5	99.0
Dimethylolurea (DMOU) $\text{HOCH}_2\text{NHCONHCH}_2\text{OH}$	170-95-4	120.1		120 to 123	> 80.0
N,N'-Dimethylurea $\text{CH}_3\text{NHCONNHCH}_3$	96-31-1	88.1	262	100	97.0
Ethylene urea (2-Imidazolidone) $\begin{array}{c} \text{HN} \quad \text{NH} \\ \quad \\ \text{C} \\ \\ \text{O} \end{array}$	120-93-4	86.1	> 100	58	87.0 to 90.0
Formamide HCONH_2	75-12-7	45.0	111 to 112 (24 mbar)	~ 2	99.5
Monomethylacetamide (MMAC) $\text{CH}_3\text{CONHCH}_3$	79-16-3	73.1	206 to 208	29 to 30	99.0
Monomethylformamide (MMF) HCONHCH_3	123-39-7	59.1	199.3	-3.2	99.5

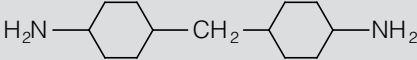
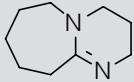
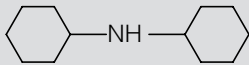
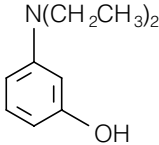
Amides and Ureas

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Tetrabutyl urea (TBU) $(\text{CH}_3(\text{CH}_2)_3)_2\text{NCN}((\text{CH}_2)_3\text{CH}_3)_2$ 	4559-86-8	284.2	310 to 315	-55	> 99.0

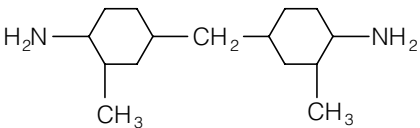
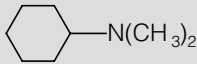
Amines

3-Amino-1-cyclohexylaminopropane 	3312-60-5	156.3	110 to 113 (13 mbar)	-17 to -15	> 99.0
N-(2-Aminoethyl)-1,3-propanediamine (N ₃ Amine) H ₂ NCH ₂ CH ₂ NHCH ₂ CH ₂ CH ₂ NH ₂	13531-52-7	117.2	78 to 81	-10	100.0
Aminoethylethanolamine H ₂ NCH ₂ CH ₂ NHCH ₂ CH ₂ OH	111-41-1	104.2	237	< -18	98.0
3-Aminopropanol H ₂ NCH ₂ CH ₂ CH ₂ OH	156-87-6	75.1	184 to 188	11	> 99.0
N,N'-bis(3-aminopropyl)N ₄ Amine (N ₄ Amine) H ₂ N(CH ₂) ₃ NHCH ₂ CH ₂ NH(CH ₂) ₃ NH ₂	10563-26-5	174.3	173	-1.5	> 96.5
Bis-(3-aminopropyl)-methylamine (BAPMA)  H ₂ N(CH ₂) ₃ N(CH ₂) ₃ NH ₂	105-83-9	145.0	235	-35	> 99.0
sec-Butylamine  CH ₃ CH ₂ CHNH ₂	13952-84-6	73.2	63	-104	99.0
tert-Butylamine (CH ₃) ₃ CNH ₂	75-64-9	73.1	44	-67	99.5
Cyclohexylamine 	108-91-8	99.2	134	-18 to -17	> 99.5
Cyclopentylamine 	1003-03-8	85.2	106 to 108	< -70	> 99.0

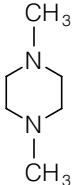
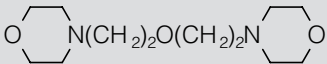
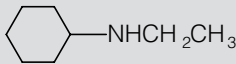
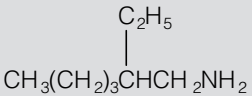
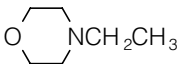
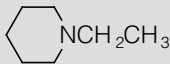
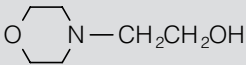
Amines

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Di-2-ethylhexylamine $\begin{array}{c} \text{C}_2\text{H}_5 \\ \\ [\text{CH}_3(\text{CH}_2)_3\text{CHCH}_2]_2\text{NH} \end{array}$	106-20-7	241.5	157 to 159	<-70	> 99.0
Di-2-methoxyethylamine (CH ₃ OCH ₂ CH ₂) ₂ NH	111-95-5	133.2	169 to 173	< -60	> 98.5
Di-n-hexylamine (CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂) ₂ NH	143-16-8	185.4	192 to 194	3	> 99.0
Di-n-pentylamine (CH ₃ CH ₂ CH ₂ CH ₂ CH ₂) ₂ NH	2050-92-2	157.3	202 to 203	-33.7	> 99.0
Di-n-propylamine (CH ₃ CH ₂ CH ₂) ₂ NH	142-84-7	101.2	105 to 110	-63	> 99.0
4,4'-Diaminodicyclohexylmethane (Dicykan) 	1761-71-3	210.4	193 to 196	33 to 44	> 99.0
1,3-Diaminopropane H ₂ N(CH ₂) ₃ NH ₂	109-76-2	74.1	140	-12	> 99.0
1,8-Diazabicyclo[5.4.0]undecene-7 (DBU) 	6674-22-2	152.2	78 to 85 (0.1 mbar)	-78	> 98.0
Dibutylamine (CH ₃ CH ₂ CH ₂ CH ₂) ₂ NH	111-92-2	129.2	160	-62	> 99.0
Dicyclohexylamine 	101-83-7	181.3	256	-2	> 99.0
N,N-Diethyl-m-aminophenol (DEMAP) 	91-68-9	165.2	170 (15 mm Hg)	70 to 73	98.0
Diethylamine (CH ₃ CH ₂) ₂ NH	109-89-7	73.1	55	-50	> 99.5

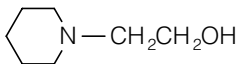
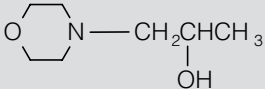
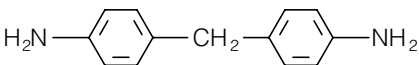
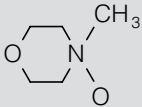
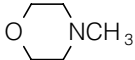
Amines

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
2-Diethylaminoethylamine (DEAEA) $(C_2H_5)_2NCH_2CH_2NH_2$	100-36-7	116.2	145 to 148	< -70	> 99.0
3-Diethylaminopropylamine (DEAPA) $(C_2H_5)_2N(CH_2)_3NH_2$	104-78-9	130.2	168 to 171	< -60	> 99.0
Diethylenetriamine $H_2N(CH_2)_2NH(CH_2)_2NH_2$	111-40-0	103.7	206	-40	100.0
Diethylethanolamine $(C_2H_5)_2NCH_2CH_2OH$	100-37-8	117.2	161	-70	> 99.0
Diisobutylamine $[(CH_3)_2CHCH_2]_2NH$	110-96-3	129.2	139.5	-70	99.0
Diisopropylamine $[(CH_3)_2CH]_2NH$	108-18-9	101.2	84	-61	> 99.0
3,3'-Dimethyl-4,4'-diamino- dicyclohexylmethane (Dimethyl dicykan)	6864-37-5	238.4	205 to 216	-7-0	> 99.0
					
N,N-Dimethyl butanamine $(CH_3)_2NCH_2CH_2CH_2CH_3$	927-62-8	101.2	93	< -75	98.0
2-2 Dimethylamino ethoxyethanol (DMEE) $(CH_3)_2N(CH_2)_2O(CH_2)_2OH$	1704-62-7	133.0	203 to 204	<-40	> 98.0
Dimethylformamide dimethylacetal $(CH_3O)_2CHN(CH_3)_2$	4637-24-5	119.2	104		> 95.0
Dimethyl aminopropylamine (DMAPA) $(CH_3)_2NCH_2CH_2CH_2NH_2$	109-55-7	102.2	132 to 140	-50	> 99.0
N,N-Dimethylcyclohexylamine (DMCHA) 	98-94-2	127.2	162 to 165	-60	> 99.0
Dimethylethanolamine $(CH_3)_2NCH_2CH_2OH$	108-01-0	89.1	133 to 134	< -70	> 99.0
N,N-Dimethylethylamine $CH_3CH_2N(CH_3)_2$	598-56-1	73.1	36	-140	> 98.0

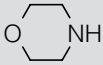

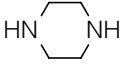


Amines

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
1,4-Dimethylpiperazine 	106-58-1	114.2	130 to 133	-1	> 98.0
2,2-Dimorpholinodiethylether (DMDEE) 	6425-39-4	244.0	225	-59	> 98.0
4,9-Dioxadodecane-1,12-diamine $\text{H}_2\text{N}(\text{CH}_2)_3\text{O}(\text{CH}_2)_4\text{O}(\text{CH}_2)_3\text{NH}_2$	7300-34-7	204.3	75 to 180 (23 mbar)	< -20	> 95.0
Ditridecylamine $(\text{C}_{12}\text{H}_{25}\text{CH}_2)_2\text{NH}$	68603-53-2	381.0	220 to 240		100.0
2-Ethoxyethylamine $\text{CH}_3\text{CH}_2\text{O}(\text{CH}_2)_2\text{NH}_2$	110-76-9	89.1	104	< -70	> 99.0
N-Ethylcyclohexylamine 	5459-93-8	127.2	167	-43	> 99.0
Ethylenediamine $\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2$	107-15-3	60.1	116 to 118	11	99.0
2-Ethylhexylamine  $\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{C}_2\text{H}_5)\text{CH}_2\text{NH}_2$	104-75-6	129.2	168 to 171	< -70	> 99.0
N-Ethylmorpholine 	100-74-3	115.2	138 to 139	-60	> 99.0
N-Ethylpiperidine 	766-09-6	113.2	129 to 131		> 98.0
n-Hexylamine $\text{CH}_3(\text{CH}_2)_5\text{NH}_2$	111-26-2	101.2	130	-19	> 99.0
N-(2-Hydroxyethyl)morpholine 	622-40-2	131.2	223 to 225	-17	> 99.0

Amines

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
N-(2-Hydroxyethyl) piperidine 	3040-44-6	129.2	199 to 202	16	> 99.0
N-(2-Hydroxypropyl)morpholine 	2109-66-2	143	218	-47	> 99.0
Iminobispropylamine $H_2N(CH_2)_3NH(CH_2)_3NH_2$	56-18-8	131.2	110 to 120	-16	> 99.0
Isobutylamine $(CH_3)_2CHCH_2NH_2$	78-81-9	73.1	68	-85	99.0
Isophoronediamine (IPDA) $H_2NC_6H_7(CH_3)_3CH_2NH_2$	2855-13-2	170.3	247	10	> 99.7
Isopropylamine $(CH_3)_2CHNH_2$	75-31-0	59.1	33 to 34	-101	> 99.0
2-Methoxyethylamine $CH_3OCH_2CH_2NH_2$	109-85-3	75.1	90 to 92	< -70	> 98.5
3-Methoxypropylamine $CH_3OCH_2CH_2CH_2NH_2$	5332-73-0	89.1	117 to 118 (733 mm Hg)	> -70	> 99.0
3-Methylaminopropylamine $CH_3NH(CH_2)_3NH_2$	6291-84-5	88.2	138 to 144	< -72	98.0
Methyldiethanolamine $CH_3N(CH_2CH_2OH)_2$	105-59-9	119.2	247	-55	> 98.5
4,4'-Methylene dianiline (MDA) 	101-77-9	198.3	220 to 230 (4 mbar)	89 to 91	> 99.0
N-Methylmorpholine-N-oxide (NMMO) (50% solution) 	7529-22-8	117.2	100	-70	48.0 to 52.0
N-Methylmorpholine 	109-02-4	101.2	111 to 114	-65	> 99.0

Amines

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Monomethylethanolamine $\text{CH}_3\text{NHCH}_2\text{CH}_2\text{OH}$	109-83-1	75.1	159	-3	> 99.0
Morpholine 	110-91-8	87.1	129	-7 to -5	> 99.0
n-Octylamine (NOA) $\text{CH}_3(\text{CH}_2)_7\text{NH}_2$	111-86-4	129.3	179	-1	> 99.0
N,N,N',N'-Pentamethyl- diethylenetriamine (PM-DETA) $(\text{CH}_3)_2\text{N}(\text{CH}_2)_2\text{N}(\text{CH}_2)_2\text{N}(\text{CH}_3)_2$ 	3030-47-5	173.3	70 to 80 (11 mbar)	< -20	> 98.0
Piperazine chips 	110-85-0	86.2	146 to 148	107 to 111	99.9
n-Propylamine $\text{CH}_3\text{CH}_2\text{CH}_2\text{NH}_2$	107-10-8	59.1	48	-83	> 99.0
1,2-Propylenediamine (1,2-PDA) $\text{H}_2\text{NCH}_2\text{CHCH}_3$ 	78-90-0	74.1	120 to 123	-37	99.0
N,N,N',N'-Tetramethyl-1,6-hexanediamine (TM-HDA) $(\text{CH}_3)_2\text{N}(\text{CH}_2)_6\text{N}(\text{CH}_3)_2$	111-18-2	172.3	212 to 216	-46	> 99.0
Tri-2-ethylhexylamine $(\text{CH}_3(\text{CH}_2)_3\text{CHCH}_2)_3\text{N}$ 	1860-26-0	353.7	204 to 211 (30 mbar)	< -46	> 99.0
Tri-n-butylamine $[\text{CH}_3(\text{CH}_2)_3]_3\text{N}$	102-82-9	185.4	216.5	< -70	98.0
Tridecylamine $\text{C}_{12}\text{H}_{25}\text{CH}_2\text{NH}_2$	2869-34-3	199.4	248 to 255	< -70	> 98.0
Triethylamine $(\text{CH}_3\text{CH}_2)_3\text{N}$	121-44-8	101.2	88.8	-115	> 99.5
4,7,10-Trioxatridecane-1,13-diamine (TTD) $\text{H}_2\text{N}(\text{CH}_2)_3\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_3\text{NH}_2$	4246-51-9	220.3	146 to 148 (13 mbar)	-32	> 98.0

Amines

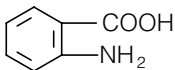

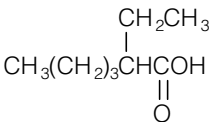
Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
1,3,5-tris(3-dimethylaminopropyl)hexahydro-s-triazine (s-Triazine)	15875-13-5	342.0	225	-59	450 to 550 mg KOH/g Amine value
$ \begin{array}{c} \text{N} - (\text{CH}_2)_3 \text{N}(\text{CH}_3)_2 \\ \quad \quad \quad \\ (\text{CH}_3)_2 \text{N}(\text{CH}_2)_3 - \text{N} \quad \quad \quad \text{N} - (\text{CH}_2)_3 \text{N}(\text{CH}_3)_2 \\ \quad \quad \quad \\ \text{N} - (\text{CH}_2)_3 \text{N}(\text{CH}_3)_2 \end{array} $					

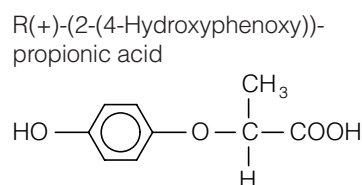
Carbonyl Iron Powders

Carbonyl iron powders are extremely pure, very finely divided iron powders for powder metallurgy metal injection molding, the chemical industry, pharmaceuticals, foods, and the electronic industry.

Name	CAS No.	Mol. Wt.	Application/Description
Carbonyl iron powder	7439-89-6	55.85	Carbonyl iron powders are used for the production of diamond-tipped tools, metal injection molding, organic reducing agent, production of electronic parts, and absorption of microwaves.

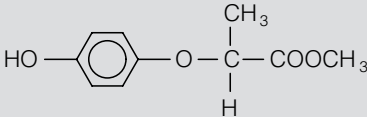
Carboxylic Acids and Anhydrides

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Anthranilic acid 	118-92-3	137.1		146 to 148	> 99.0
 Dimethyl aminoacetic acid (N,N-Dimethylglycine) $(\text{CH}_3)_2\text{NCH}_2\text{COOH}$	118-68-9	103.1		179 to 181	99.0
2-Ethylhexanoic acid 	149-57-5	144.2	226 to 229	-59	> 99.0
Formic acid 85% HCOOH 90% 94% 99% to 100%	64-18-6	46.0	106 105 104 101	-13.5 -5 2 7	> 85.0 > 90.0 > 94.0 > 99.0



Carboxylic Acids and Anhydrides

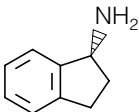
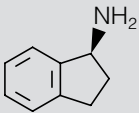
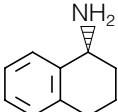
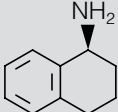
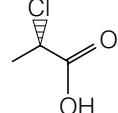


Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
R(+)-(2-(4-Hydroxyphenoxy))-propionic acid, methyl ester 	96562-58-2	196.0	150 (1 mbar)	63 to 65	> 99.0
Methyl formate HCOOCH ₃	107-31-3	60.1	32	-100	> 97.0
Propionic acid CH ₃ CH ₂ COOH	79-09-4	74.1	140 to 142	-20	> 99.5
Sarcosine sodium salt solution (40%) CH ₃ NHCH ₂ COONa	4316-73-8	111.1	105 to 106	< -50	< 50.0
Sarcosine technical crystals CH ₃ NHCH ₂ COOH	107-97-1	89.1		204	98.0 to 99.0

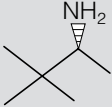
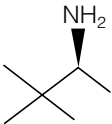
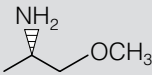
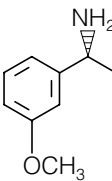
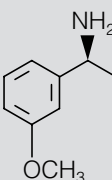
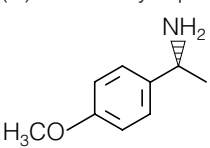
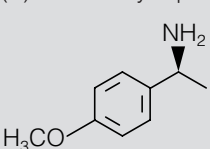
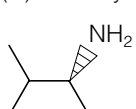


All products in this category are part of The Development Group

Chiral Intermediates

(R)-1-Aminoindane 	10277-74-4	133			> 99.0
(S)-1-Aminoindane 	61341-86-4	133			> 99.0
(R)-1-Aminotetraline 	21966-60-9	147	246 to 247 (714 mbar)		> 99.0
(S)-1-Aminotetraline 	21880-87-5	147			> 99.0
(S)-2-Chloropropanoic acid 	598-78-7	108.5	186	-12	> 98.0

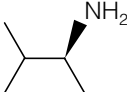
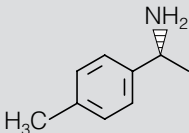
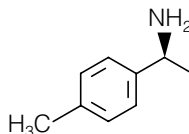
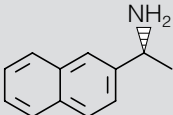
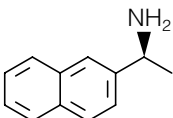
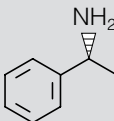
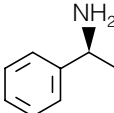
Chiral Intermediates

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
(R)-2,2-Dimethyl-3-aminobutane 	66228-31-7	101	103		> 99.0
(S)-3,3-Dimethyl-2-aminobutane 	22526-47-2	101	103		> 99.0
(S)-1-Methoxy-2-aminopropane 	99636-32-5	89	92.5 to 93.5 (990 mbar)	-95	> 98.0
(R)-3-Methoxy-1-phenylethylamine 	88196-70-7	151			> 99.0
(S)-3-Methoxy-1-phenylethylamine 	82796-69-8	151			> 99.0
(R)-4-Methoxy-1-phenylethylamine 	22038-86-4	151			> 99.0
(S)-4-Methoxy-1-phenylethylamine 	41851-59-6	151			> 99.0
(R)-3-Methyl-2-butylamine 	34701-33-2	87	84 to 87		> 99.0

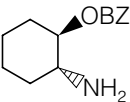
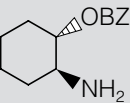
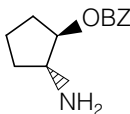
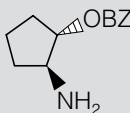
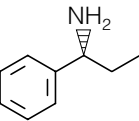
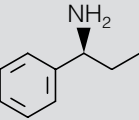


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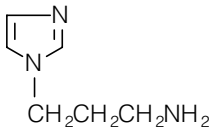


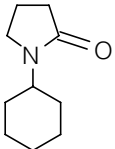

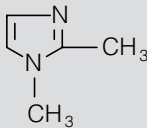

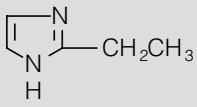
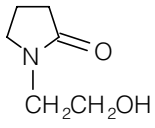
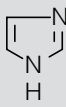
Chiral Intermediates

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
(S)-3-Methyl-2-butylamine 	22526-46-1	87	84 to 87		> 99.0
(R)-4-Methyl-1-phenylethylamine 	4187-38-6	135	205		> 98.0
(S)-4-Methyl-1-phenylethylamine 	27298-98-2	135	205		> 98.0
(R)-1-(2-Naphthyl)-ethylamine 	3906-16-9	171			> 99.0
(S)-1-(2-Naphthyl)-ethylamine 	3082-62-0	171			> 99.0
(R)-1-Phenylethylamine 	3886-69-9	121	187	-10	> 99.0
(S)-1-Phenylethylamine 	2627-86-3	121	187	-10	> 99.0

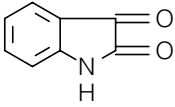
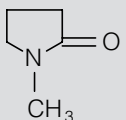
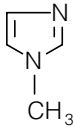
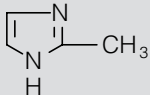
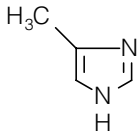
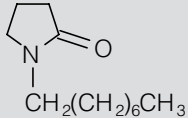
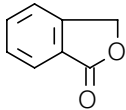
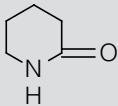
Chiral Intermediates

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
(1R-trans)-2-(Phenylmethoxy)-cyclohexanamine		205			> 98.0
					
(1S-trans)-2-(Phenylmethoxy)-cyclohexanamine		205			> 98.0
					
(1R-trans)-2-(Phenylmethoxy)-cyclopentanamine	181657-56-7	191			> 98.0
					
(1S-trans)-2-(Phenylmethoxy)-cyclopentanamine	181657-57-8	191			> 98.0
					
(R)-1-Phenylpropylamine	3082-64-2	135	205	-69	> 99.0
					
(S)-1-Phenylpropylamine	3789-59-1	135	205	-69	> 99.0
					


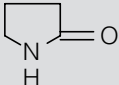

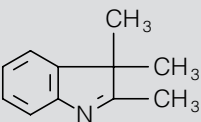

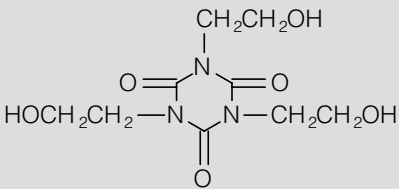
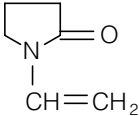
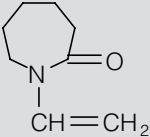
Heterocyclic Compounds

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
1-(3-Aminopropyl)-imidazole 	5036-48-6	125.2	170 to 180 (20 mbar)	-68	> 97.0
gamma-Butyrolactone 	96-48-0	86.1	201 to 206	-43	> 99.5
 N-Cyclohexylpyrrolidone 	6837-24-7	167.2	290	15 to 16	> 98.0
 1,2-Dimethylimidazole 	1739-84-0	96.1	93 to 94	38	> 98.0
1,4-Dioxane 	123-91-1	88.1	100.0 to 102.5	12	> 98.5
2-Ethylimidazole 	1072-62-4	96.1	268 to 270	77 to 78	> 99.0
1-(2-Hydroxyethyl)-2-pyrrolidone 	3445-11-2	129.2	295 (4 mbar)	20	> 98.0
Imidazole 	288-32-4	68.1	268	88 to 90	> 99.5

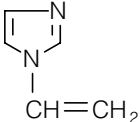
Heterocyclic Compounds

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Isatin 	91-56-5	147.1		198	> 98.0
N-Methyl-2-pyrrolidone (NMP) 	standard 872-50-4 electronic grade (NMP-EL) 872-50-4 cleaning grade (NMP-CG) 872-50-4	99.1 99.1 99.1	204.3 204.3 204.3	-25 -25 -25	> 99.5 > 99.8 > 97.8
1-Methylimidazole 	616-47-7	82.1	72 to 73 (1.3 kPascal)	-2 to -1	> 99.0
2-Methylimidazole 	powder 693-98-1 technical 693-96-1	82.1 82.1	264 264	144 to 145 136 to 140	> 99.7 > 99.0
4-Methylimidazole 	822-36-6	82.1	153 to 155 (21 mbar)	46	> 97.0
N-Octyl pyrrolidone 	2687-94-7	197.3	145 (2 mbar)	< -20	> 99.0
Phthalide 	87-41-2	134.1	157 to 159 (2 kPascal)	68 to 73	> 98.5
2-Piperidone (delta-Valerolactam) 	675-20-7	99.1	256	38 to 40	> 98.0



Heterocyclic Compounds

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Pyrrolidine 	123-75-1	71.1	86	< -60	> 99.0
2-Pyrrolidone 	616-45-5	85.1	123 to 125 (13 mbar)	~ 25	> 99.5
Tetrahydrofuran (THF) 	109-99-9	72.1	66	-109	> 99.95
2,3,3-Trimethylindolenine (Indolenine) 	1640-39-7	159.2	228 to 229 (744 mm Hg)	8 to 12	> 97.0
1,3,5-Trioxane 	110-88-3	90.1	114.5 to 115.5	61 to 62	> 99.5
<i>tris</i> -2-Hydroxyethyl isocyanurate (THEIC) 	839-90-7	261.2		133	99.0
N-Vinyl-2-pyrrolidone 	88-12-0	111.1	90 to 92 (13 mbar)	13.6	> 99.0
N-Vinylcaprolactam 	2235-00-9	139.2	113 to 116 (13 mbar)	34	> 98.0

Heterocyclic Compounds

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
1-Vinylimidazole 	1072-63-5	94.1	74 to 77 (1.3 kPascal)	< -50	> 99.5

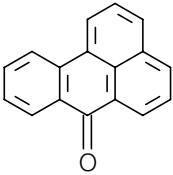
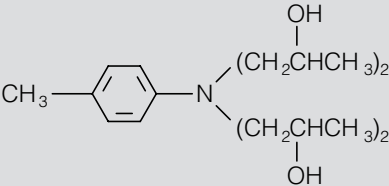
Inorganics

Ammonium bicarbonate NH_4HCO_3	1066-33-7	79.0			99.5
Ammonium carbamate $\text{H}_2\text{NCO}_2\text{NH}_4$	1111-78-0	78.1			99.9
Ammonium carbonate $(\text{NH}_4)_2\text{CO}_3$	506-87-6	96.1			> 99.0
Ammonium chloride NH_4Cl	12125-02-9	53.5			> 99.0
Ammonium sulfate $(\text{NH}_4)_2\text{SO}_4$	7783-20-2	132.1			99.5
Boron trifluoride diethyl etherate $\text{BF}_3 \cdot \text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$	109-63-7	141.9	125 to 135	< -60	47.5 to 49.5 (BF_3)
Boron trifluoride dimethyl etherate $\text{BF}_3 \cdot \text{CH}_3\text{OCH}_3$	353-42-4	113.9	125 to 135	< -10	59 to 61 (BF_3)
Boron trifluoride diacetic acid $\text{BF}_3 \cdot 2(\text{CH}_3\text{COOH})$	373-61-5	188.0	140 to 148	< -40	35 to 36.5 (BF_3)
Boron trifluoride tetrahydrofuran $\text{BF}_3 \cdot$ 	462-34-0	139.9	~ 180	~ 12	48 to 50 (BF_3)
Boron trifluoride dihydrate $\text{BF}_3 \cdot 2(\text{H}_2\text{O})$	7637-07-2	103.8	100	6.2	65 to 67 (BF_3)
Boron trifluoride phenol $\text{BF}_3 \cdot 2$ 	372-44-1	256.03		< 5	26 to 27.5 (BF_3)
Boron trifluoride phosphoric acid complex mixture	13669-76-6	217.7		< -60	48 to 49.5 (BF_3)

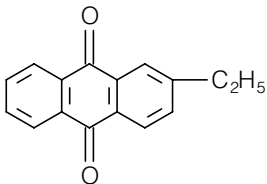

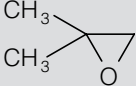
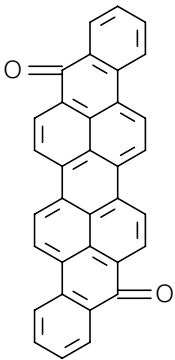


Inorganics

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Boron trifluoride methanol $\text{BF}_3 \cdot 2(\text{CH}_3\text{OH})$	372-57-9	131.9		< -20	51 to 53 (BF_3)
Ferric chloride anhydrous FeCl_3	7705-08-0	162.2			> 99.0
Hydroxylammonium sulfate $(\text{NH}_3\text{OH})_2\text{SO}_4$	24% sol'n 30% sol'n crystal	10039-54-0	164.2		< 27.0 30.0 > 99.0
Potassium metabisulfite $\text{K}_2\text{S}_2\text{O}_5$	16731-55-8	222.3			> 97.2
Sodium metabisulfite $\text{Na}_2\text{S}_2\text{O}_5$	7681-57-4	190.0			> 97.2
Sodium nitrate NaNO_3	7631-99-4	85.0		312	99.2
Sodium nitrite NaNO_2	7632-00-0	69.0		280	> 99.0
Sodium sulfite Na_2SO_3	7757-83-7	126.1			> 97.0

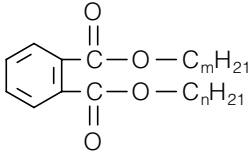
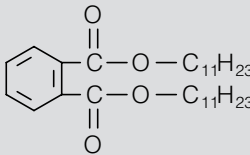
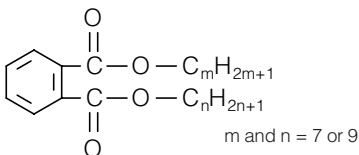
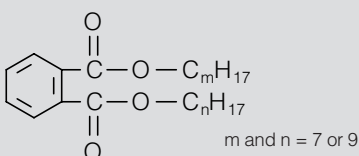
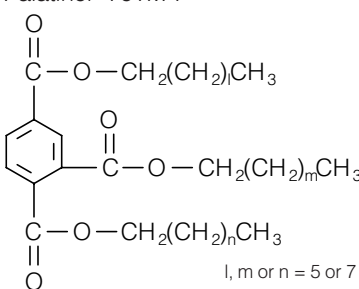
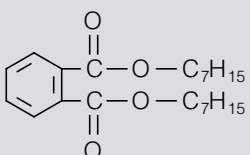
Miscellaneous

Benzanthrone	82-05-3	230.3		168 to 170	> 98.0
					
Diisopropanol-p-toluidine	38668-48-3	223.0	> 300	65 to 72	> 97.0
					

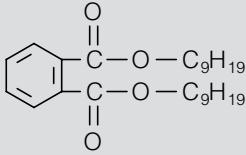
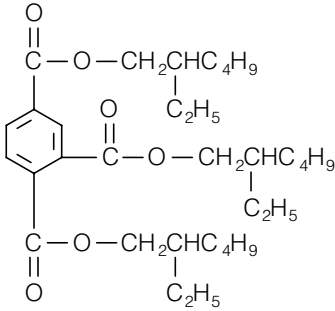
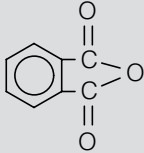
Miscellaneous

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
2-Ethylanthraquinone (EAQ) 	84-51-5	236.3		107 to 112	> 98.5
 Isobutylene oxide 	558-30-5	72.1	50 to 51		> 99.5
Isodibenzanthrone 	128-64-3	456.5		> 400	~ 80
3-Methoxypropionitrile $\text{CH}_3\text{OCH}_2\text{CH}_2\text{CN}$	110-67-8	85.1	166	< -50	> 99.0
 Poly®THF Divinylether 290 $\text{CH}_2=\text{CHO}-(\text{CH}_2)_4\text{O}-\text{CH}=\text{CH}_2$		~ 290	150 (1 mbar)		> 95.0
Sodium methylate crystals NaOCH_3	124-41-4	54.0			99.0
Sodium methylate 20% sol'n in methanol NaOCH_3			~ 81 ~ 81	-20 -20	~ 21.0 ≥ 25.0
 (1,1,3,3)-Tetramethoxypropane (malondialdehyde tetramethylacetal) $(\text{CH}_3\text{O})_2\text{CHCH}_2\text{CH}(\text{OCH}_3)_2$	102-52-3	164.2	183		98.0
Triphenylphosphine (TPP) $(\text{C}_6\text{H}_5)_3\text{P}$	603-35-0	262.3	195 to 205 (7 mbar)	78.5 to 81.5	98.0 to 99.0
Triphenylphosphine oxide (TPPO) $(\text{C}_6\text{H}_5)_3\text{PO}$	791-28-6	278.3	> 360	150 to 157	99.0

Plasticizers

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Palatinol® 11-9P-I 	85507-79-5 111381-91-0 68515-45-7	458.0	276 (6.7 mbar)		99.6
Palatinol® 11P-E 	85507-79-5	474.0	262 (13 mbar)		99.6
Palatinol® 711P 	85507-79-5 68515-44-6 68515-45-7 111381-89-6 111381-90-9 111381-91-0	418.0	238 (6 mbar)		99.6
Palatinol® 79P 	68515-45-7 68515-44-6 111381-89-6	398.0	235 (5 mbar)		99.0
Palatinol® 79TM-I 	68515-60-6 1843-03-4	547.0	274 (4 mbar)		99.0
Palatinol® 7P 	68515-44-6	362.0	257 (mbar)		99.0

Plasticizers

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Palatinol® 9P 	68515-45-7	418.0	252 (13 mbar)		99.6
Palatinol® TOTM-I 	3319-31-1	546.0	283 (4 mbar)		99.0
Phthalic anhydride (molten) 	85-44-9	148.1	284.5 (1013 mbar)		99.8



All products in this category are part of The Development Group except for those marked with a **X**.

Vinyl ethers

	Aminopropyl vinyl ether (APVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_3\text{NH}_2$	66415-55-2	101.1	76 (100 mbar)	> 96.0
	tert-Amyl vinyl ether (TAVE) $\text{CH}_2=\text{CHOC}(\text{CH}_3)_2(\text{C}_2\text{H}_5)$	29281-39-8	114.2	106	> 98.0
	Butanediol divinyl ether (BDDVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_4\text{OCH}=\text{CH}_2$	3891-33-6	142.2	166	-8 > 98.0
	Butanediol monovinyl ether (HBVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_4\text{OH}$	17832-28-9	116.2	189	-33 > 99.0
X	n-Butyl vinyl ether (NBVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_3\text{CH}_3$	111-34-2	100.2	93	-92 > 99.0
	tert-Butyl vinyl ether (TBVE) $\text{CH}_2=\text{CHOC}(\text{CH}_3)_3$	926-02-3	100.2	78	> 98.0



All products in this category are part of The Development Group except for those marked with a **x**.

Vinyl ethers

Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Cyclohexanedimethanol divinyl ether (CHDVE) $\text{CH}_2=\text{CHOCH}_2-\text{C}_6\text{H}_{10}-\text{CH}_2\text{OCH}=\text{CH}_2$	17351-75-6	196.3	253	5.8	> 98.0
Cyclohexanedimethanol monovinyl ether (CHMVE) $\text{CH}_2=\text{CHOCH}_2\text{C}_6\text{H}_{10}\text{CH}_2\text{OH}$	114651-37-5	170.3	262	12.1	> 98.0
Cyclohexyl vinyl ether (CVE) $\text{CH}_2=\text{CHOC}_6\text{H}_{11}$	2182-55-0	126.2	150 to 152	-109	> 98.0
Diethylaminoethyl vinyl ether (DEAVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{N}(\text{C}_2\text{H}_5)_2$	3205-13-8	143.2	71 (47 mbar)	-46.3	> 98.0
Diethyleneglycol divinyl ether (DVE-2) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{OCH}=\text{CH}_2$	764-99-8	158.2	196	-21	> 99.0
Diethyleneglycol monovinyl ether (MVE-2) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{OH}$	929-37-3	132.2	208		> 98.0
Dodecyl vinyl ether (DDVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_{11}\text{CH}_3$	765-14-0	212.4	117 to 120 (5 mbar)		> 98.0
Ethyleneglycol butyl vinyl ether (EGBVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_3\text{CH}_3$	4223-11-4	144.2	61 (20 mbar)		> 99.0
Ethyleneglycol divinyl ether (EGDVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{OCH}=\text{CH}_2$	764-78-3	114.1	127		> 95.0
Ethyleneglycol monovinyl ether (EGMVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{OH}$	764-48-7	88.1	143		> 95.0
x Ethyl vinyl ether (EVE) $\text{CH}_2=\text{CHOCH}_2\text{CH}_3$	109-92-2	72.1	36		99.0
Ethylhexyl vinyl ether (EHVE) $\text{CH}_2=\text{CHOCH}_2\text{CH}(\text{C}_2\text{H}_5)(\text{CH}_2)_3\text{CH}_3$	103-44-6	156.3	178	-85	> 98.0
Hexanediol divinyl ether (HDDVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_6\text{OCH}=\text{CH}_2$	19763-13-4	170.31	205		> 97.0
Hexanediol monovinyl ether (HDMVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_6\text{OH}$	27336-16-9	144.2	235	12	> 98.0



All products in this category are part of The Development Group except for those marked with a **x**.

Vinyl ethers

	Name/Formula	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
	4-Hydroxybutyl vinyl ether $\text{CH}_2=\text{CHOCH}_2(\text{CH}_2)_3\text{OH}$	17832-28-9	116.2	189	-33	> 99.0
x	Isobutyl vinyl ether (IBVE) $\text{CH}_2=\text{CHOCH}_2\text{CH}(\text{CH}_3)_2$	109-53-5	100.2	83	-112	99.0
x	Isopropyl vinyl ether (IPVE) $\text{CH}_2=\text{CHOCH}(\text{CH}_3)_2$	926-65-8	86.1	56		> 99.0
x	Octadecyl vinyl ether (ODVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_{17}\text{CH}_3$	930-02-0	296.5	182 to 192 (7 mbar)		83.0 to 87.0
	Polyethyleneglycol-520 methyl vinyl ether (MPEG500-VE) $\text{CH}_2=\text{CHO}[\text{CH}_2\text{CH}_2\text{O}]_n\text{CH}_3$	50856-25-2	ca.540	>300		> 95.0
	Poly®THF 290 divinyl ether (PTHF290-DVE) $\text{CH}_2=\text{CHO}[(\text{CH}_2)_4\text{O}]_n\text{CH}=\text{CH}_2$		ca. 290	150 (1 mbar)		> 95.0
	Pluriol-E200 divinyl ether (PEG200-DVE) $\text{CH}_2=\text{CHO}[\text{CH}_2\text{CH}_2\text{O}]_n\text{CH}=\text{CH}_2$	50856-26-3	ca. 240	142 (1 mbar)		> 95.0
x	n-Propyl vinyl ether (NPVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{CH}_3$	764-47-6	86.1	65		> 99.0
	Tetraethyleneglycol divinyl ether (DVE-4) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{CH}=\text{CH}_2$	83416-06-2	246.3	102 (0.2 mbar)	-7	> 98.0
	Triethyleneglycol divinyl ether (DVE-3) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{OCH}=\text{CH}_2$	765-12-8	202.3	242 to 245		> 98.0
	Triethyleneglycol methyl vinyl ether (MTGVE) $\text{CH}_2=\text{CHO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{OCH}_3$	26256-87-1	190.2	98 (5 mbar)		> 99.0
	Trimethylolpropane trivinyl ether (TMPTVE) $\text{CH}_2=\text{CHOCH}_2\text{C}(\text{CH}_2\text{OCH}=\text{CH}_2)_2\text{CH}_2\text{CH}_3$	57758-90-4	212.3	101 (9 mbar)		> 98.0

Performance Chemicals

1-800-367-9861

BASF produces an extensive line of performance products designed to meet the specific needs of our customers. The product groupings are listed below and the product offerings are covered in this section.

- Surfactants
- Polyethylene Glycols
- Dispersants
- Chelating Agents
- Waxes

Ethylene Oxide/Derivatives

Name	CAS No.	Mol. Wt.	B.P.°C	M.P.°C	Assay%
Ethylene oxide	75-21-8	44.05	11	-111	>99.95
Monoethylene glycol	107-21-1	62.07	197	-13	>99.3
Diethylene glycol	111-46-4	106.1	245	-8	>99.1
Triethylene glycol	112-27-6	150.2	288	-7	>98.0

Chelating Agents

TRILON® chelating agents include those products commonly referred to as NTA, EDTA, HEDTA, DTPA and their sodium salts.

Name

TRILON® A Chelate
Nitrilotriacetic acid (NTA)

TRILON B Chelate
Ethylenediaminetetraacetic acid (EDTA)

TRILON C Chelate
Diethylenetriaminepentaacetic acid (DTPA)

TRILON D Chelate
Hydroxyethylethylenediaminetriacetic acid (H₃HEDTA)

Dispersants

SOKALAN® polycarboxylate polymers are useful dispersants. The PA series are various MWs of polyacrylic acid, while the CP series are copolymers having various charge densities. SOKALAN HP dispersants are monoionic polymers, including polyvinylpyrrolidone. PLURAFLO® dispersants are based on propylene oxide and ethylene oxide.

Name	CAS No.	Mol. Wt.	Application/Description
SOKALAN® PA Dispersants	9003-04-7	1000 to 250,000	Homopolymers of polyacrylic acid of various molecular weights.
SOKALAN® CP Dispersants	various	3,000 to 70,000	Copolymers of various polycarboxylates, including acrylic acid, maleic acid and methylvinyl ether.
SOKALAN® HP Dispersants	9003-39-8	24,000 to 40,000	Polyvinylpyrrolidone and solutions. Other specialty polymers.
PLURAFLO® Dispersants	9003-11-6	various	Nonionic dispersants specially formulated for use as liquid dispersants in aqueous systems.

Fuel Additives

PURADD® Multifunctional Fuel Detergent Additives are used in gasoline to prevent the build up of harmful deposits in the Intake System of Spark Ignited engines. BASF's product line consist of components and ready-to-use formulations.

Name	Application/Description
Components	
FD-100	Polyisobutylene amine (PIBA) detergent is the basic component of additive formulations.
FD-105	Polyether amine (PEA) detergent, components of premium additive formulations.
SC-82	Polyether carrier used in combination with amine detergents.
Finished Formulations	
AP-58	PIBA based finished formulation.
AP-92	PIBA based finished formulation.
AP-96	PIBA based finished formulation

Polyethylene Glycols

Name	CAS No.	Mol. Wt.	Application/Description
PLURACOL® E polyethylene glycols	25322-68-3	200 to 8000	PLURACOL® E series is a group of polyethylene glycols with each product designated by a number which represents its average molecular weight.
QUADROL® polyol tetrafunctional propoxylated ethylenediamine	102-60-3	292	Neutralizing agent.

Surfactants

Name	CAS No.	Mol. Wt.	Application/Description
PLURONIC® surfactants	9003-11-6	1100 to 14600	PLURONIC® nonionic surfactants are block copolymers of propylene oxide and ethylene oxide.
PLURONIC® R surfactants	9003-11-6	1900 to 8550	PLURONIC® R nonionic surfactants are block copolymers of propylene oxide and ethylene oxide.
PLURAFAC® A surfactants	various	various	PLURAFAC® nonionic surfactants are ethoxylated linear alcohols.
PLURAFAC® B, C, D, LF and RA surfactants	various	various	PLURAFAC® nonionic surfactants are alkoxylated linear alcohols.
TETRONIC® surfactants	11111-34-5	1650 to 30000	TETRONIC® nonionic surfactants are tetrafunctional block copolymers of propylene oxide and ethylene oxide on an ethylenediamine base.
TETRONIC® R surfactants	26316-40-5	2640 to 20400	TETRONIC® R nonionic surfactants are tetrafunctional block copolymers of propylene oxide and ethylene oxide on an ethylenediamine base.
ICONOL™ DA surfactants	26183-52-8	330 to 550	ICONOL DA nonionic surfactants are ethoxylates of decyl alcohol. The product is designated by a number which represents the molar ratio of ethylene oxide to the hydrophobe.
ICONOL™ NP surfactants	127087-87-0	391 to 4315	ICONOL NP nonionic surfactants are ethoxylates of nonylphenol. The product is designated by a number which represents the molar ratio of ethylene oxide to the hydrophobe.
ICONOL™ OP surfactants	9036-19-5	650 to 1970	ICONOL OP nonionic surfactants are ethoxylates of octylphenol. The product is designated by a number which represents the molar ratio of ethylene oxide to the hydrophobe.

Surfactants

Name	CAS No.	Mol. Wt.	Application/Description
ICONOL™ TDA surfactants	24938-91-8	325 to 640	ICONOL TDA nonionic surfactants are ethoxylates of tridecyl alcohol. The product is designated by a number which represents the molar ratio of ethylene oxide to the hydrophobe.
KLEARFAC® surfactants	various	various	KLEARFAC® anionic surfactants are phosphate esters of either an alkoxyated alcohol or a block copolymer based on ethylene oxide and propylene oxide.

Water Glycol Fluids

PLURASAFE® water glycol fluids are specially designed fire resistant hydraulic fluids for high temperature/pressure applications. Principal applications are in primary metals production and die casting, rolling, etc., where fire hazards are greatest.

Name	Application/Description
PLURASAFE® Water Glycol Fluids	BASF produces a full line of Monoethylene and Diethylene glycol based hydraulic fluids and fluid concentrates in a wide range of viscosities.

Waxes

For more than thirty years BASF has been a basic producer of polyethylene waxes marketed under our tradename of LUWAX. Today the range of LUWAX products includes a broad spectrum of low density and high density polyethylene waxes, micronized polyethylene waxes, oxidized polyethylene waxes and copolymer waxes.

LUWAX polyethylene waxes and copolymer waxes are used world wide in a variety of industries. Typical uses in printing inks, coatings and paints, color concentrates, plastics, adhesives, wax emulsions and products specially designed for your needs. LUWAX Montan Ester waxes can be used in shoe care products, coatings and plastic films.

Name	Application/Description
LUWAX® A polyethylene waxes	Low and high density ethene homopolymers.
LUWAX OA oxidized polyethylene waxes	Ethene homopolymer, oxidized.
LUWAX Montan & Montan Ester waxes	Montanic acid waxes
LUWAX EVA waxes	Ethylene-vinyl acetate copolymer.
LUWAX EAS waxes	Ethylene-acrylic acid copolymer.
POLIGEN® wax dispersions	Wax dispersions.

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Acrylic acid, glacial	6	Di-2-methoxyethylamine	12
3-Amino-1-cyclohexylaminopropane	11	Di-n-hexylamine	12
N-(2-Aminoethyl)-1,3-propanediamine (N ₃ Amine)	11	Di-n-pentylamine	12
Aminoethylethanolamine	11	Di-n-propylamine	12
(R)-1-Aminoindane	18	1,3-Diaminopropane	12
(S)-1-Aminoindane	18	4,4'-Diaminodicyclohexylmethane (Dicykan)	12
3-Aminopropanol	11	1,8-Diazabicyclo[5.4.0]undecene-7 (DBU)	12
N,N'-bis(3-aminopropyl)N ₄ Amine (N ₄ Amine)	11	Dibutylamine	12
1-(3-Aminopropyl)-imidazole	22	Dicyclohexylamine	12
Bis-(3-aminopropyl)-methylamine (BAPMA)	11	Diethyl ketone	9
Aminopropyl vinyl ether (APVE)	29	N,N-Diethyl-m-aminophenol (DEMAP)	12
(R)-1-Aminotetraline	18	Diethylamine	12
(S)-1-Aminotetraline	18	2-Diethylaminoethylamine (DEAEA)	13
Ammonium bicarbonate	25	4-Diethylaminobenzaldehyde	9
Ammonium carbamate	25	Diethylaminoethyl vinyl ether (DEAVE)	30
Ammonium carbonate	25	3-Diethylaminopropylamine (DEAPA)	13
Ammonium chloride	25	Diethylcarbamoyl chloride	5
Ammonium sulfate	25	Diethylene glycol	32
Anthranilic acid	17	Diethyleneglycol divinyl ether (DVE-2)	30
Benzanthrone	26	Diethyleneglycol monovinyl ether (MVE-2)	30
Boron trifluoride diacetic acid	25	Diethylenetriamine	13
Boron trifluoride diethyl etherate	25	Diethylethanolamine	13
Boron trifluoride dihydrate	25	Diglycol bis chloroformate	5
Boron trifluoride dimethyl etherate	25	Dihydrodicyclopentadienyl acrylate	6
Boron trifluoride methanol	26	Diisobutylamine	13
Boron trifluoride phenol	25	Diisopropanol-p-toluidine	26
Boron trifluoride phosphoric acid complex mixture	25	Diisopropylamine	13
Boron trifluoride tetrahydrofuran	25	4-Dimethylaminobenzaldehyde	9
Butanediol divinyl ether (BDDVE)	29	(R)-2,2-Dimethyl-3-aminobutane	18
Butanediol monoacrylate	6	(S)-3,3-Dimethyl-2-aminobutane	19
Butanediol monovinyl ether (HBVE)	29	Dimethyl aminoacetic acid (N,N-Dimethylglycine)	17
1,4-Butanediol	7	Dimethyl aminopropylamine (DMAPA)	13
2,3-Butanediol	7	N,N-Dimethyl butanamine	13
1,2,4-Butanetriol (BTO)	7	3,3'-Dimethyl-4,4'-diamino-Dicyclohexylmethane (Dimethyl dicykan)	13
N-Butanol	7	N,N-Dimethylacetamide (DMAC)	10
1,4-Butenediol (2-Butene-1,4-diol)	7	2,2-Dimethylamino ethoxyethanol (DMEE)	13
Butyl acrylate	6	Dimethylcarbamoyl chloride	5
4-t-Butyl cyclohexylchloroformate	5	N,N-Dimethylcyclohexylamine (DMCHA)	13
N-Butyl vinyl ether (NBVE)	29	Dimethylethanolamine	13
Butyne-1-ol-3 (55% solution in water)	7	N,N-Dimethylethylamine	13
1,4-Butynediol (2-Butyne-1,4-diol)	7	Dimethylformamide	10
Carbonyl iron powders	17	Dimethylformamide dimethylacetal	13
4-Chlorobutyrolyl chloride	5	1,2-Dimethylimidazole	22
(S)-2-Chloropropanoic acid	18	Dimethylolurea (DMOU)	10
3-Chloropropionyl chloride	5	1,4-Dimethylpiperazine	14
Cyclohexanedimethanol divinyl ether (CHDVE)	30	N,N'-Dimethylurea	10
Cyclohexanedimethanol monovinyl ether (CHMVE)	30	2,2-Dimorpholinodiethylether (DMDEE)	14
Cyclohexanol	7	4,9-Dioxadodecane-1,12-diamine	14
Cyclohexanone	9	1,4-Dioxane	22
Cyclohexyl vinyl ether (CVE)	30	Tridecylamine	14
Cyclohexylamine	11	Dodecyl vinyl ether (DDVE)	30
Cyclopentylamine	11	2-Ethoxyethylamine	14
N-Cyclohexylpyrrolidone	22	Ethyl acrylate	6
Di-2-ethylhexylamine	12	Ethyl vinyl ether (EVE)	30

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2-Ethylanthraquinone (EAQ)	27	Isobutylene oxide	27
N-Ethylcyclohexylamine	14	Isobutyryl chloride	5
Ethylene chlorohydrin	8	Isodibenzanthrone	27
Ethylene oxide	32	Isophoronediamine (IPDA)	15
Ethylene urea (2-Imidazolidone)	10	Isopropyl vinyl ether (IPVE)	31
Ethylenediamine	14	Isopropylamine	15
Ethyleneglycol butyl vinyl ether (EGBVE)	30	KLEARFAC® surfactants	35
Ethyleneglycol divinyl ether (EGDVE)	30	Lauryl acrylate	6
Ethyleneglycol monovinyl ether (EGMVE)	30	LUWAX® waxes	35
2-Ethylhexanoic acid	17	2-Mercaptoethanol (2-ME)	8
2-Ethylhexanol	8	2-Methoxyethylamine	15
2-Ethylhexanoyl chloride	5	(R)-3-Methoxy-1-phenylethylamine	19
2-Ethylhexyl acrylate	6	(R)-4-Methoxy-1-phenylethylamine	19
2-Ethylhexylamine	14	(S)-1-Methoxy-2-aminopropane	19
2-Ethylhexylchloroformate	5	(S)-3-Methoxy-1-phenylethylamine	19
Ethylhexyl vinyl ether (EHVE)	30	(S)-4-Methoxy-1-phenylethylamine	19
2-Ethylimidazole	22	3-Methoxypropionitrile	27
N-Ethylmorpholine	14	3-Methoxypropylamine	15
N-Ethylpiperidine	14	Methyl acrylate	7
Ferric chloride anhydrous	26	(2-Methyl-3-buten-2-ol (MBE)	8
Formamide	10	3-Methyl-2-butene-1-ol (Prenol)	8
Formic acid	17	R)-3-Methyl-2-butylamine	19
Formic acid (85%)	17	(S)-3-Methyl-2-butylamine	20
Formic acid (90%)	17	2-Methyl-3-butyne-2-ol (MBY)	8
Formic acid (94%)	17	Methyl formate	17
Formic acid (99% to 100%)	17	2-Methyl-1-pentanal (2-Methylvaleraldehyde)	10
Gamma-Butyrolactone	22	(R)-4-Methyl-1-phenylethylamine	20
Glutaraldehyde 25%, 50%	9	(S)-4-Methyl-1-phenylethylamine	20
Glyoxal 40%	9	N-Methyl-2-pyrrolidone (NMP) Standard	23
Hexanedial monovinyl ether (HDMVE)	30	N-Methyl-2-pyrrolidone (NMP-EL) Electronic grade	23
Hexanediol divinyl ether (HDDVE)	30	N-Methyl-2-pyrrolidone (NMP-CG) Cleaning grade	23
1,6-Hexanediol (HDO®)	8	3-Methylaminopropylamine	15
N-Hexylamine	14	Methyldiethanolamine	15
Hydroxyacetone (Acetol)	8	4,4'-Methylene dianiline (MDA)	15
4-Hydroxybutyl vinyl ether	31	Methylglyoxal dimethylacetal (MGDA)	10
N-(2-Hydroxyethyl) morpholine	14	1-Methylimidazole	23
N-(2-Hydroxyethyl) piperidine	15	2-Methylimidazole powder	23
1-(2-Hydroxyethyl)-2-pyrrolidone	22	2-Methylimidazole technical	23
Hydroxylammonium sulfate 24% sol'n	26	4-Methylimidazole	23
Hydroxylammonium sulfate 30% sol'n	26	N-Methylmorpholine	15
Hydroxylammonium sulfate Crystal	26	N-Methylmorpholine-N-oxide (NMMO) (50% solution)	15
R(+)-(2-(4-Hydroxyphenoxy))-Propionic acid	17	Michler's ethyl ketone (N,N,N',N'-Tetraethyl-4,4'-diaminobenzophenone)	10
R(+)-(2-(4-Hydroxyphenoxy))-Propionic acid, methyl ester	17	Monoethylene glycol	32
N-(2-Hydroxypropyl)morpholine	15	Monomethylacetamide (MMAC)	10
Hydroxypivalic acid neopentyl glycol ester (HPN)	8	Monomethylethanolamine	16
ICONOL™ surfactants	34	Monomethylformamide (MMF)	10
Imidazole	22	Morpholine	16
Iminobispropylamine	15	(R)-1-(2-Naphthyl)-ethylamine	20
Isatin	23	(S)-1-(2-Naphthyl)-ethylamine	20
Isoamyl alcohol (3-methylbutanol-1)	8	Neodecanoyl chloride	5
Isobutanol	8	NEOL® Neopentylglycol flake	9
Isobutyl acrylate	6	NEOL® Neopentylglycol molten	9
Isobutyl vinyl ether (IBVE)	31	NEOL® Neopentylglycol slurry 90%	9
Isobutylamine	15	Octadecyl vinyl ether (ODVE)	31

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N-Octyl pyrrolidone	23	SOKALAN® polymers	33
N-Octylamine (NOA)	16	Stearoyl chloride	6
Oleoyl chloride	5	Stearyl acrylate	7
Palatinol® 11-9P-I	28	T-Amyl alcohol	7
Palatinol® 11P-E	28	Tert-Butyl acrylate	6
Palatinol® 711P	28	Tert-Butylamine	11
Palatinol® 79P	28	Tert-Amyl vinyl ether (TAVE)	29
Palatinol® 79TM-I	28	Tert-Butyl vinyl ether (TBVE)	29
Palatinol® 7P	28	Tertiary butyl methacrylate	6
Palatinol® 9P	29	Tetrabutyl urea (TBU)	11
Palatinol® TOTM-I	29	Tetraethyleneglycol divinyl ether (DVE-4)	31
N,N,N',N'-Pentamethyl-diethylenetriamine (PM-DETA)	16	Tetrahydrofuran (THF)	24
1,5-Pentanediol	9	(1,1,3,3)-Tetramethoxypropane (malondialdehyde tetramethylacetal)	27
(R)-1-Phenylethylamine	20	N,N,N',N'-Tetramethyl-1,6-hexanediamine (TM-HDA)	16
(S)-1-Phenylethylamine	20	TETRONIC® surfactants	34
(R)-1-Phenylpropylamine	21	(1R-trans)-2-(Phenylmethoxy)-Cyclopentanamine	21
(S)-1-Phenylpropylamine	21	(1S-trans)-2-(Phenylmethoxy)-Cyclohexanamine	21
Phthalic anhydride (molten)	29	(1R-trans)-2-(Phenylmethoxy)-Cyclohexanamine	21
Phthalide	23	(1S-trans)-2-(Phenylmethoxy)-Cyclopentanamine	21
Piperazine chips	16	Tri-2-ethylhexylamine	16
2-Piperidone (delta-Valerolactam)	23	Tri-n-butylamine	16
Pivaloyl chloride	5	Tridecylamine	16
PLURACOL® polyols	34	Triethylamine	16
PLURAFAC® surfactants	34	Triethylene glycol	32
PLURAFLO® dispersants	33	Triethyleneglycol divinyl ether (DVE-3)	31
PLURASAFE® water glycol fluids	35	Triethyleneglycol methyl Vinyl ether (MTGVE)	31
Pluriol-E200 divinyl ether (PEG200-DVE)	31	TRILON® chelating agents	32
PLURONIC® surfactants	34	2,3,3-Trimethylindolenine (Indolenine)	24
POLIGEN® wax dispersions	35	Trimethylolpropane trivinyl ether (TMPTVE)	31
Polyethyleneglycol-520 methyl Vinyl ether (MPEG500-VE)	31	1,3,5-Trioxane	24
PolyTHF® Polyether diol	9	4,7,10-Trioxatridecane-1,13-diamine (TTD)	16
PolyTHF® Divinylether 290	27	Triphenylphosphine (TPP)	27
PolyTHF® 290 divinyl ether (PTHF290-DVE)	31	Triphenylphosphine oxide (TPPO)	27
Potassium metabisulfite	26	1,3,5- <i>tris</i> (3-dimethylaminopropyl)hexahydro-S-triazine (s-Triazine)	17
Propargyl alcohol	9	<i>tris</i> -2-Hydroxyethyl isocyanurate (THEIC)	24
Propionic acid	17	N-Vinyl-2-pyrrolidone	24
Propionyl chloride	5	N-Vinyl caprolactam	24
N-Propyl vinyl ether (NPVE)	31	Vinyl propionate	7
N-Propylamine	16	1-Vinylimidazole	25
1,2-Propylenediamine (1,2-PDA)	16		
PURADD® fuel detergent additives	33		
Pyrrolidine	24		
2-Pyrrolidone	24		
QUADROL® polyol	34		
Sarcosine sodium salt solution (40%)	18		
Sarcosine technical crystals	18		
Sec-Butylamine	11		
Sodium metabisulfite	26		
Sodium methylate 20% sol'n in methanol	27		
Sodium methylate 25% sol'n in methanol	27		
Sodium methylate crystals	27		
Sodium nitrate	26		
Sodium nitrite	26		
Sodium sulfite	26		

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