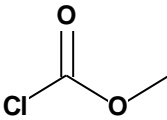
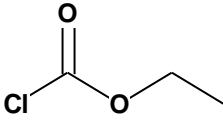
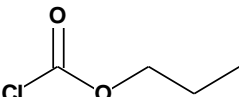
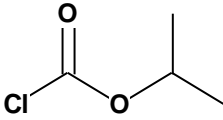
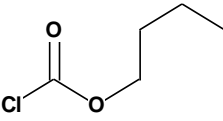
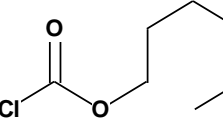
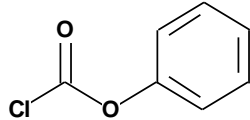
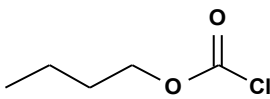
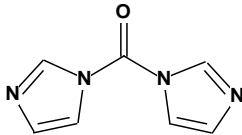


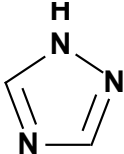
| Structure | Identification | Characteristics | Main Applications | On Request (OR) / Regular Production (RP) |
|-----------|----------------|-----------------|-------------------|---|
|-----------|----------------|-----------------|-------------------|---|

Phosgene derivatives

| | | | | |
|---|--|---|--|----|
|  | Methyl chloroformate MCF, Methyl chlorocarbonate, Chloroformic acid methyl ester CAS Reg. No. 79-22-1 | Assay: min. 99% by area Appearance: colourless to pale yellow liquid Packaging: 160 kg drum, ISO tank | Organic reagent for introduction of the methoxycarbonyl group, synthesis of carbonates, carbamates, anhydrides etc. | RP |
|  | Ethyl chloroformate ECF, Ethyl chlorocarbonate, Chloroformic acid ethyl ester CAS Reg. No. 541-41-3 | Assay: min. 98.5% by area Appearance: colourless to pale yellow liquid Packaging: 160 kg drum, ISO tank | Organic reagent for introduction of the ethoxycarbonyl group, synthesis of carbonates, carbamates, anhydrides etc. | RP |
|  | n-Propyl chloroformate nPCF, n-Propyl chlorocarbonate, Chloroformic acid propyl ester CAS Reg. No. 109-61-5 | Assay: min. 98% by area Appearance: colourless to pale yellow liquid Packaging: ISO tank | Organic reagent for introduction of the n-propoxycarbonyl group, synthesis of carbonates, carbamates, anhydrides etc. | OR |
|  | Isopropyl chloroformate iPCF, 2-Propylchloroformate, Chloroformic acid isopropyl ester CAS Reg. No. 108-23-6 | Assay: min. 98.5% by area Appearance: clear colourless to pale yellow liquid Packaging: ISO tank | Organic reagent for introduction of the isopropoxycarbonyl group, synthesis of carbonates, carbamates, anhydrides etc. | OR |
|  | n-Pentylchloroformate n-Pentylchlorocarbonate, Chloroformic acid pentyl ester CAS Reg. No. 638-41-5 | Assay: min. 98.5% by area Appearance: colourless liquid Packaging: 190 kg drum | Organic reagent for introduction of the n-pentoxycarbonyl group, synthesis of carbonates, carbamates, anhydrides etc. | OR |
|  | n-Hexylchloroformate HCF, n-Hexylchlorocarbonate, Chloroformic acid hexyl ester CAS Reg. No. 6092-54-2 | Assay: 96.0 – 102.0% Appearance: clear colourless to yellow liquid Packaging: 190 kg drum | Organic reagent for introduction of the n-hexyloxycarbonyl group, synthesis of carbonates, carbamates, anhydrides etc. | OR |

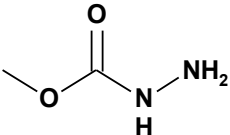
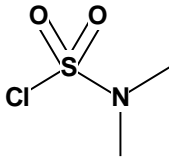
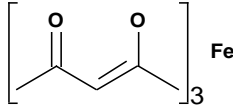
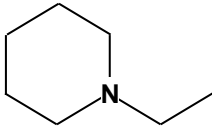
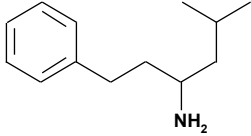
| Structure | Identification | Characteristics | Main Applications | On Request (OR) / Regular Production (RP) |
|---|---|--|---|---|
|  | Phenyl chloroformate Phenyl chlorocarbonate, Chloroformic acid phenyl ester CAS Reg. No. 1885-14-9 | Assay: min. 99.0% by area Appearance: colourless to pale coloured liquid Packaging: 240 kg drum, ISO tank | Organic reagent for introduction of the phenoxycarbonyl group, synthesis of carbonates, carbamates, anhydrides etc. | OR |
|  | n-Butylchloroformate CAS Reg. No. 592-34-7 | Assay: min. 99.0% Appearance: clear, colourless to slightly yellowish liquid Packaging: 190 kg drum | mining industry, flotation agents and depressants, automotive industry | OR |
|  | Carbonyldiimidazole 1,1'-Carbonylbis(imidazole), CDI, CBI CAS Reg. No. 530-62-1 | Assay: min. 98.0% by area Appearance: white to pale coloured solid Packaging: 10 kg drum, 20 kg drum, 25 kg drum, 50 kg drum | Versatile organic reagent, safer-to-handle phosgene equivalent, activator for carboxylic acids etc. | OR |

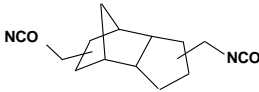
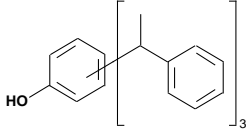
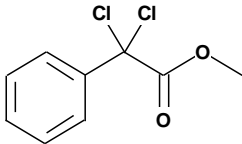
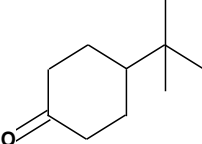
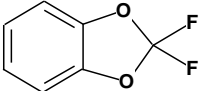
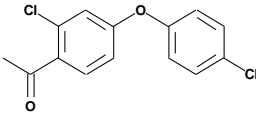
Triazole and Triazol derivatives

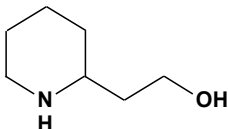
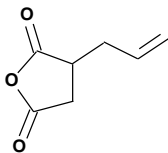
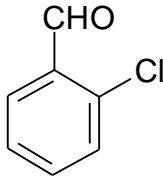
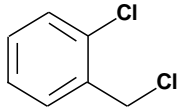
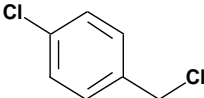
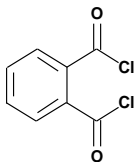
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|---|---|--|--|----|
|  | 1,2,4-Triazole CAS Reg. No. 288-88-0 | Assay: min. 99.5% by area Appearance: white to pale yellow flakes Packaging: 100 kg fibre drum | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals | RP |
|---|---|--|--|----|

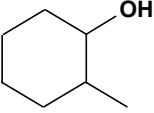
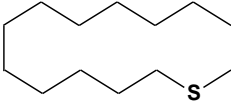
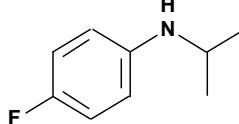
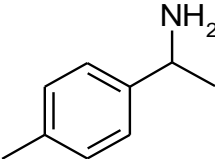
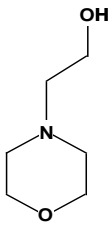
| Structure | Identification | Characteristics | Main Applications | On Request (OR) / Regular Production (RP) |
|-----------|----------------|-----------------|-------------------|---|
|-----------|----------------|-----------------|-------------------|---|

Other Reagents and Building Blocks

| | | | | |
|---|---|---|--|----|
|  | Methyl carbamate Methyl hydrazinocarboxylate, Methoxycarbonyl hydrazine CAS Reg. No. 6294-89-9 | Assay: min. 97.0 % by area Appearance: white to pale pink coloured crystalline powder Packaging: 25 kg fibre drum | Organic reagents for transfer of the hydrazine group, protecting group for carbonyl functions etc. | OR |
|  | Dimethylaminosulfonyl chloride N,N-Dimethylaminosulfonyl chloride CAS Reg. No. 13360-57-1 | Assay: min 98.0 % by area Appearance: Yellowish to green liquid Packaging: 250 kg drum | Reagent for the introduction of the N,N-dimethylsulfonyl group | OR |
|  | Tris(2,4-pentanedionato)-iron Iron(III) acetylacetonate, Ferric tris(acetylacetonate) CAS Reg. No. 14024-18-1 | Assay: Fe min. 15.0% Appearance: red, crystalline powder Packaging: 12 kg PE hob-bock | Lewis-acidic catalyst für Grignard reactions, cross-coupling reactions, chlorinations, polymerizations, polymer curing (replacement for organotin catalysts); also used in chemical vapour deposition and for nano materials | OR |
|  | N-Ethylpiperidine 1-Ethylpiperidine CAS Reg. No. 766-09-6 | Assay: min. 99.6% by area Appearance: colourless to light yellow liquid Packaging: 160 kg rolling channel drum, rail tanker, ISO tank | Building block, sterically hindered base, tertiary amine | OR |
|  | 3-Methyl-1-phenethyl-butylamine Phenylmethylhexylamine, α-(2-Methylpropyl)-benzenepropanamine CAS Reg. No. 6396-93-6 | Assay: min. 99.0 % by area Appearance: colourless to yellowish liquid or solidified melt Packaging: 180 kg rolling channel drum | Building block, base, sterically hindered by flexible primary amine | OR |

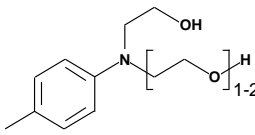
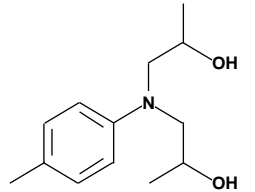
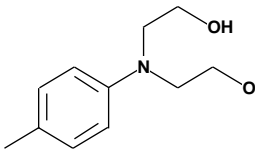
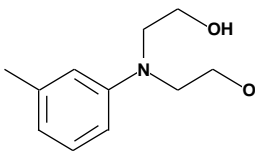
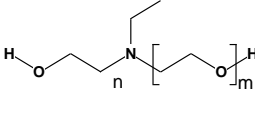
| Structure | Identification | Characteristics | Main Applications | On Request (OR) / Regular Production (RP) |
|---|--|---|---|---|
|  | TCDDI Bis(isocyanatomethyl) tricyclo[5.2.1.0.2'6]decane, Octahydro-1,5(1,6 or 2,5)- bis(isocyanatomethyl)-4,7- methano-1H-indene CAS Reg. No. 28807-72-9 | Assay: min. 97% Appearance: colourless to light yellow liquid Packaging: 50 kg composite drum with inside container | Diisocyanate with a rigid backbone for polymer applications | OR |
|  | Tristyrenated Phenol CAS Reg. No. 61788-44- 1, 18254-13-2, 25640-71-5 | Assay: 60 - 75 % Appearance: Colourless to pale yellow, highly viscous liquid Packaging: 200 kg rolling channel drum, ISO tank | Intermediate for production of surfactants | OR |
|  | DCPAE α,α -Dichlorobenzene- acetic acid ethyl ester, Ethyl 2,2-dichloro-2- phenylacetate CAS Reg. No. 5317-66-8 | Assay: min. 96.0 % (m) Appearance: Clear, colourless to yellowish liquid. Packaging: 240 kg rolling channel drum, 1000 kg IBC, ISO tank | Catalyst activator used with olefin polymerization catalysts | OR |
|  | 4-tert-Butylcyclohexanone CAS Reg. No. 98-53-3 | Assay: min. 99,0 % Appearance: At room tem- perature colourless to light yellowish crystals. At tem- peratures > 45 °C colourless to yellowish clear liquid. Packaging: ISO tank | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals, flavour and fragrance in food and household products, polymer component in ink, paint, resins, dystuffs, coatings and as additive in lithium batteries | OR |
|  | 2,2-Difluoro-1,3- benzodioxole CAS Reg. No. 1583-59-1 | Assay: min. 98.0 % Appearance: Colourless to yellow liquid. Packaging: ISO Container | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals | OR |
|  | 2-Chloro-4-(4-chlorophen- oxy)acetophenone 4-Acetyl-3,4'-dichlorodi- phenylether, ADCPE CAS Reg. No. 119851-28- 4 | Assay: min. 97.0% Appearance: Yellow to brown (solidified) melt Packaging: ISO tank | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals | OR |

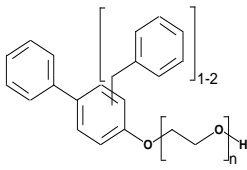
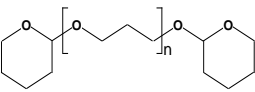
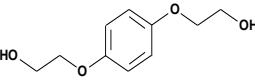
| Structure | Identification | Characteristics | Main Applications | On Request (OR) / Regular Production (RP) |
|---|--|---|--|---|
|  | 2-Piperidineethanol HEPP, 2-(2-Hydroxyethyl)-piperidine CAS Reg. No. 1484-84-0 | Assay: min. 99,0% Appearance: Pale wax-like, white to yellowish solid matter or liquid Packaging: UN1A1 steel drum TH 216,5L | Building Block, secondary amine | OR |
|  | Allylsuccinic anhydride ABSA, (2-Propenyl)butanedioic anhydride CAS Reg. No. 7539-12-0 | Assay: min. 98% Appearance: Clear, colourless to slightly yellowish liquid Packaging: 200 kg drum | Building block for specialty polymers, in electrolytic compositions | OR |
|  | o-Chlorobenzaldehyde 2-Chlorobenzaldehyde CAS Reg. No. 89-98-5 | Assay: min. 99.0% Appearance: Clear, colourless to slightly yellowish liquid Packaging: ISO Container | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals | OR |
|  | o-Chlorobenzyl chloride oCBC, 2-Chlorobenzyl chloride CAS Reg. No. 611-19-8 | Assay: min. 99.0% (area) Appearance: Clear to pale yellow liquid Packaging: ISO Container | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals | OR |
|  | p-Chlorobenzyl chloride pCBC, 4-Chlorobenzyl chloride CAS Reg. No. 104-83-6 | Assay: min. 99.0% Appearance: Colourless crystalline solid or clear liquid (mp 29 °C) Packaging: ISO Container | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals | OR |
|  | Phthalic dichloride PDC, Phthaloyl dichloride CAS Reg. No. 88-95-9 | Assay: min. 96% (a/a) Appearance: Colourless to yellow-brownish liquid Packaging: ISO Container (approx. 25 mt), 250 kg drums | Intermediate for agrochemicals, pharmaceuticals, specialty polymers and other fine chemicals | OR |

| Structure | Identification | Characteristics | Main Applications | On Request (OR) / Regular Production (RP) |
|---|--|---|---|---|
|  | 2-Methylcyclohexanol 2-MCH CAS Reg. No. 583-59-5 | Assay: min. 98.0% Appearance: Clear colourless to yellow-brownish liquid with camphor-like odour Packaging: ISO Container (drums and IBCs upon request) | Intermediate for agrochemicals, pharmaceuticals, other fine chemicals and specialty solvents (i.e. 2-MCH acetate) | OR |
|  | Dodecyl methyl sulfide DOMESU CAS Reg. No. 3698-89-3 | Assay: min. 99.0% Appearance: light to slightly turbid liquid Packaging: 900 kg IBC | virtually odourless substitute for lower dialkylsulfides (in thiol exchange reactions, Corey-Kim oxidations, Swern oxidations, hydroborations etc.); in flavours & fragrances; for catalyst sulfidation | OR |
|  | FI-Aniline 4-Isopropylfluoroaniline CAS Reg. No. 70441-63-3 | Assay: min. 96.0% Appearance: Yellowish to brownish liquid Packaging: ISO Container | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals | OR |
|  | p-Methylphenethylamine (1-(4-Methylphenyl)ethanamine CAS Reg. No. 586-70-9 | Assay: min. 97.5% Appearance: Colourless one to easily yellowish liquid Packaging: ISO Container | Intermediate for agrochemicals, pharmaceuticals and other fine chemicals | OR |
|  | n-Hydroxyethylmorpholine HEM 4-(2-Hydroxyethyl)morpholine 2-morpholinoethanol CAS-Nr. 622-40-2 | Assay: min. 99.0% (area) Appearance: Clear colourless to dark brown liquid Packaging: 200 kg steel drum, 1000 kg IBC | Intermediate for pharmaceuticals and other fine chemicals | OR |

| Structure | Identification | Characteristics | Main Applications | On Request (OR) / Regular Production (RP) |
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|-----------|----------------|-----------------|-------------------|---|

Polymer Additives and Functional Products

| | | | | |
|---|---|--|---|-----------|
|  | <p>Accelerator PT25E/2 N,N-Bis(2-hydroxyethyl)-p-toluidine (over-ethoxylated) CAS Reg. Nr. 3077-12-1, 878391-30-1</p> | <p>Assay: 46-52% by area, Hydroxy value 460-540 mg KOH/g, Amine value 240-270 mg KOH/g Appearance: Light yellow to brown liquid Packaging: 25 kg steel can, 200 kg steel drum, IBC 1000 kg</p> | <p>Liquid curing agent for epoxy resins</p> | <p>OR</p> |
|  | <p>Dipropoxy-p-toluidine Diisopropanol-p-toluidine, N,N-Bis(2-hydroxypropyl)-p-toluidine CAS Reg. No. 38668-48-3</p> | <p>Assay: min. 96% Appearance: pale yellow, solidified melt Packaging: 25 kg steel can, 50 kg steel can, 190 kg steel drum</p> | <p>Curing agent for epoxy resins</p> | <p>OR</p> |
|  | <p>N,N-Dihydroxyethyl-p-toluidine DEPT, N-(p-Tolyl)diethanolamine, Diethylol-p-toluidine, PT 2HE CAS Reg. No. 3077-12-1</p> | <p>Assay: min. 97% Appearance: pale to yellow-brown, liquid to fused, crystalline product Packaging: 25 kg steel can, 200 kg steel drum</p> | <p>Curing agent for epoxy resins</p> | <p>OR</p> |
|  | <p>N,N-Dioxethyl-m-toluidine Diethylol-m-toluidine, N-(m-Tolyl)diethanolamine CAS Reg. No. 91-99-6</p> | <p>Assay: min. 96% Appearance: white to light beige solid Packaging: 25 kg steel can, 190 kg steel drum</p> | <p>Curing agent for epoxy resins</p> | <p>OR</p> |
|  | <p>Polyether E719 Ethylamine-ethylene oxide polymer CAS Reg. No. 26795-68-6</p> | <p>Hydroxyl number: 475-505 mg KOH/g Appearance: dark red to dark brown liquid Packaging: 200 kg rolling channel drum; 1000 kg IBC</p> | <p>Polyetheramine-based plasticizer for chloroethylene-based polymers; emulsifier for butadiene emulsion polymerization</p> | <p>OR</p> |

| Structure | Identification | Characteristics | Main Applications | On Request (OR) / Regular Production (RP) |
|---|--|--|--|---|
|  | <p>Emulsifier W Emulgator W, 4-Hydroxybiphenyl benzylated and ethoxylated</p> <p>CAS Reg. No. 104376-72-9</p> | <p>Hydroxyl number: min 71 mg KOH/g</p> <p>Appearance: yellow-brown, viscous liquid</p> <p>Packaging: 60 kg steel hobbock, 230 kg rolling channel drum, 1000 kg IBC, road tanker, ISO tank</p> | <p>Versatile emulsifier with applications in emulsion polymerization, agro-chemical formulation etc.</p> | <p>RP</p> |
|  | <p>α,ω-Bis(tetrahydro-2H-pyran-2-yl)-poly[oxy(methyl-1,2-ethanediyl)]; Poly[oxy(methyl-1,2-ethanediyl)], α-(Tetrahydro-2H-pyran-2-yl)-ω[(tetrahydro-2H-pyran-2-yl)oxy]-</p> <p>CAS Reg. No. 115341-08-7</p> | <p>Hydroxyl number max. 20 mg KOH/g</p> <p>Appearance: Colourless liquid</p> <p>Packaging: 100 kg rolling channel drum, 750 kg IBC</p> | <p>Polymer additive, used to increase radiation stability of polycarbonates</p> | <p>OR</p> |
|  | <p>Crosslinker 30/10 HQEE, Hydroquinone bis(2-hydroxyethyl) ether, 2,2'-(1,4-Phenylenedioxy)-diethanol</p> <p>CAS Reg. No. 104-38-1</p> | <p>Appearance: White to weakly grey pastilles</p> <p>Packaging: 140 kg PE drum with inner bag</p> | <p>Polymer chain extender</p> | <p>OR</p> |