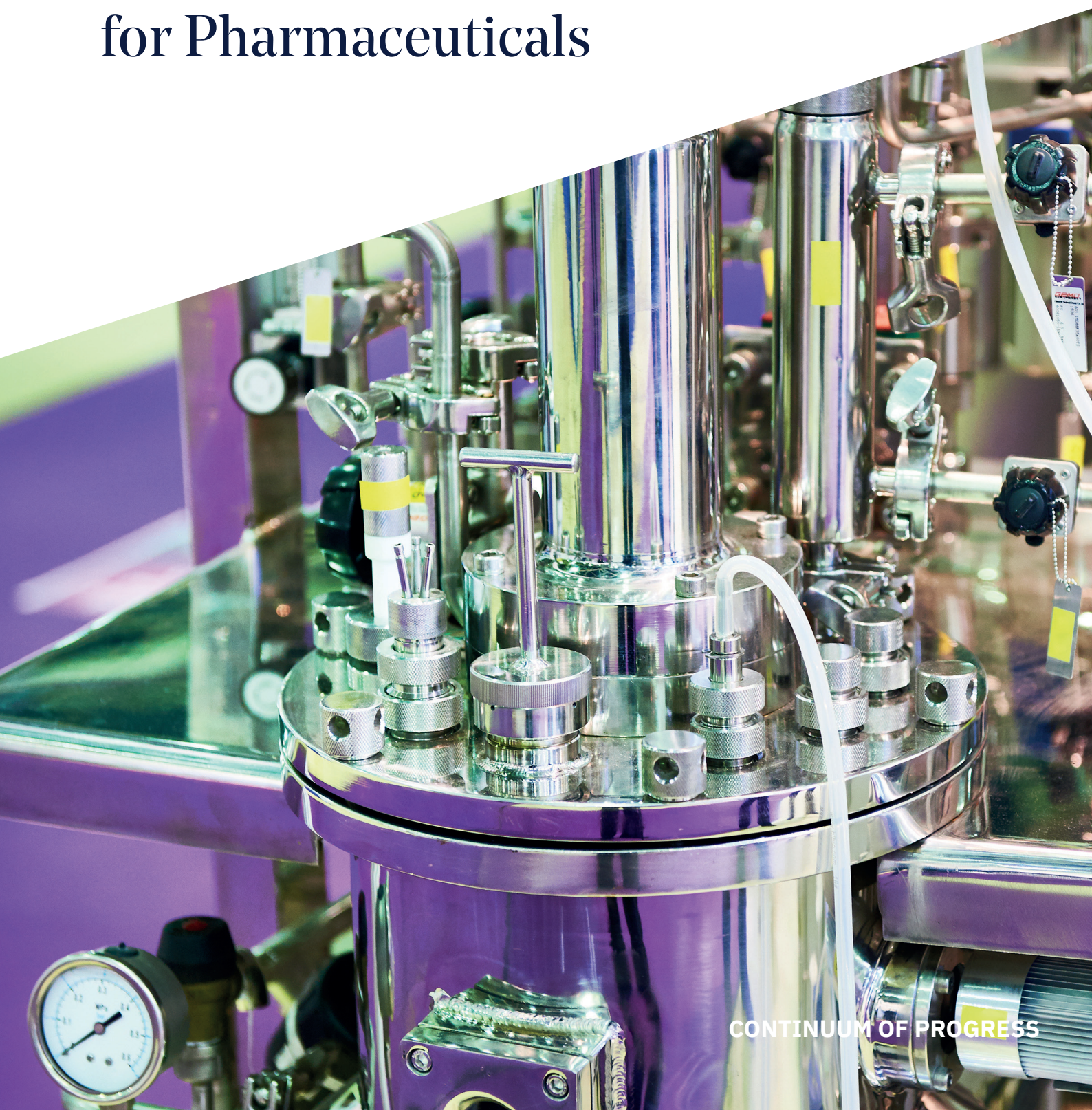


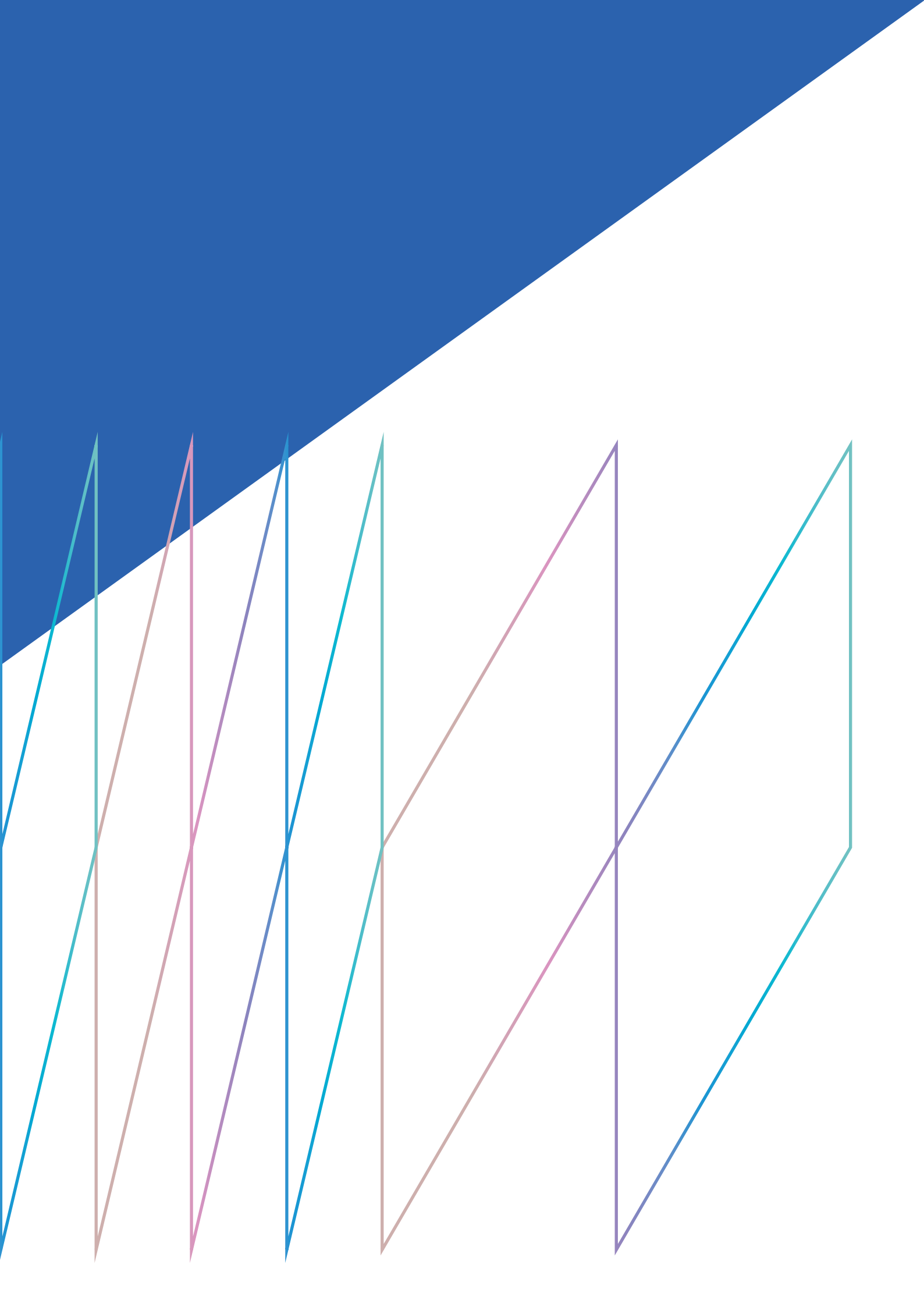
SEQENS

CDMO

Intermediates for Pharmaceuticals



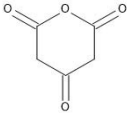
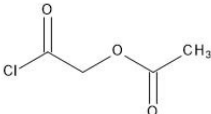
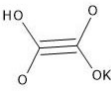
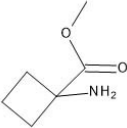
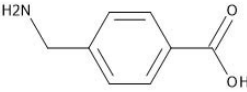
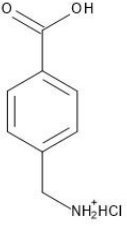
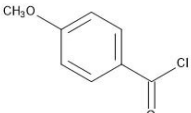
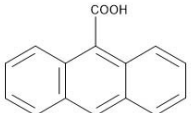
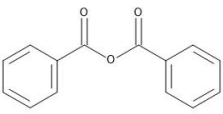
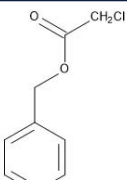
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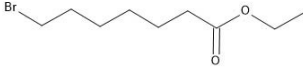
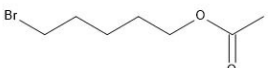
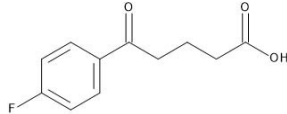
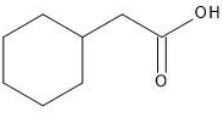
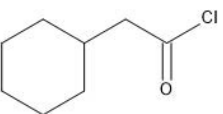
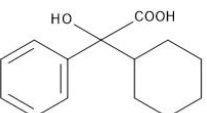
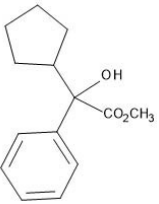
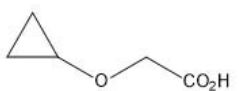
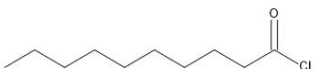
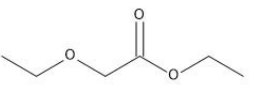
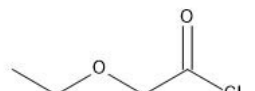
Index

| | |
|--|----|
| Acids, Acid chlorides and Esters | 4 |
| Acrolein Derivatives | 10 |
| Amines..... | 11 |
| Boronic Acids | 15 |
| Brominated Derivatives | 16 |
| Chiral Building Blocks | 17 |
| Halogen Containing Derivatives | 22 |
| Heterocyclic Building Blocks..... | 23 |
| Ketones..... | 25 |
| Miscellaneous Building Blocks | 26 |
| Phosphorus Derivatives | 30 |
| Thiophene Derivatives | 32 |
| Miscellaneous | 33 |

Acids, Acid Chlorides and Esters

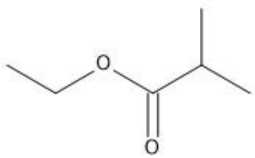
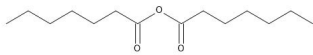
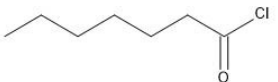
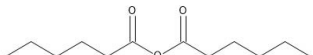
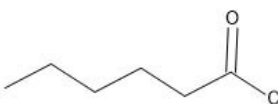
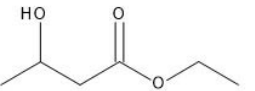
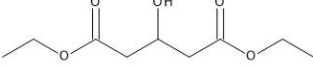
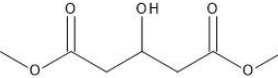
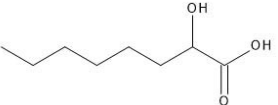
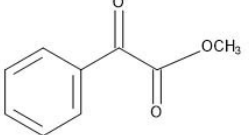
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-------------------|-------------|-------|
| 1,3-ACETONEDICARBOXYLIC ACID ANHYDRIDE |  | $C_5H_4N_2O_4$ | 10521-08-1 | L |
| ACETOXY-ACETYL CHLORIDE |  | $C_4H_5ClO_3$ | 13831-31-7 | P |
| ACETYLENEDICARBOXYLIC ACID MONO POTASSIUM SALT |  | C_4HKO_4 | 928-04-1 | C |
| 1-AMINOCYCLOBUTANE-CARBOXYLIC ACID METHYLESTER |  | $C_6H_{11}NO_2$ | 215597-35-6 | L |
| 4-AMINOMETHYL BENZOIC ACID |  | $C_8H_9NO_2$ | 56-91-7 | L |
| 4-AMINOMETHYL-BENZOIC ACID HYDROCHLORIDE |  | $C_8H_{10}ClNO_2$ | 67688-72-6 | P |
| 4-ANISOYL CHLORIDE |  | $C_8H_7ClO_2$ | 100-07-2 | C |
| 9-ANTHRACEN-CARBOXYLIC ACID |  | $C_{16}H_{10}O_2$ | 723-62-6 | C |
| BENZOIC ANHYDRIDE |  | $C_{14}H_{10}O_3$ | 93-97-0 | C |
| BENZYL MONOCHLORACETATE |  | $C_9H_9ClO_2$ | 140-18-1 | C |

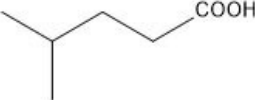
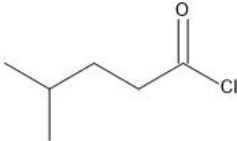
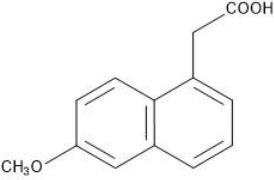
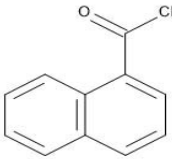
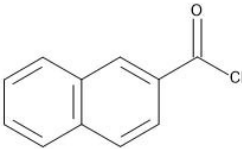
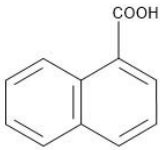
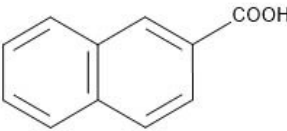
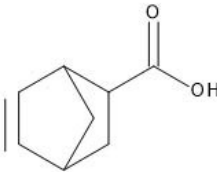
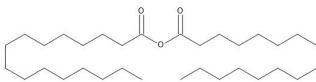
L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|--------------------|-------------|-------|
| ETHYL 7-BROMOHEPTANOATE |  | $C_9H_{17}BrO_2$ | 29823-18-5 | C |
| 5-BROMOPENTYLACETATE |  | $C_7H_{13}BrO_2$ | 15848-22-3 | P |
| 4-(4-FLUOROBENZOYL) BUTYRIC ACID |  | $C_{11}H_{11}FO_3$ | 149437-76-3 | P |
| CYCLOHEXYL ACETIC ACID |  | $C_7H_{12}O_2$ | 5292-21-7 | P |
| CYCLOHEXYL ACETYL CHLORIDE |  | $C_7H_{11}O$ | 23860-35-7 | P |
| CYCLOHEXYL MANDELIC ACID |  | $C_{14}H_{18}O_3$ | 4335-77-7 | C |
| CYCLOPENTYL MANDELIC ACID METHYL ESTER |  | $C_{14}H_{18}O_3$ | 19833-96-6 | P |
| CYCLOPROPOXY ACETIC ACID |  | $C_5H_8O_3$ | - | P |
| DECANOYL CHLORIDE |  | $C_{10}H_{19}ClO$ | 112-13-0 | C |
| 2-ETHOXYACETICACID ETHYLESTER |  | $C_6H_{12}O_3$ | 817-95-8 | P |
| 2-ETHOXYACETYLCHLORIDE |  | $C_4H_7Cl_{102}$ | 14077-58-8 | P |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

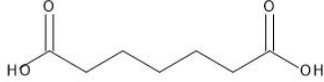
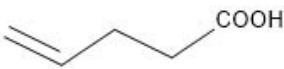
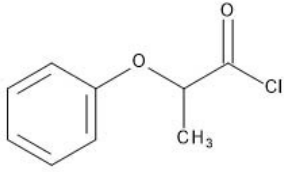
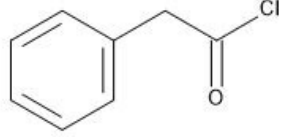
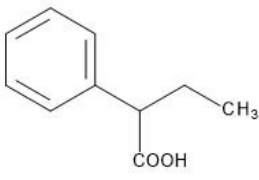
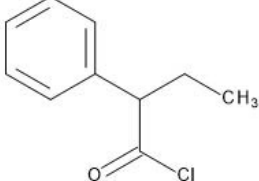
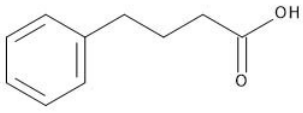
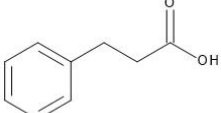
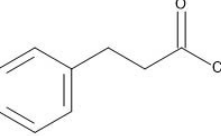
Acids, Acid Chlorides and Esters

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-------------------|------------|-------|
| ETHYL ISOBUTYRATE |  | $C_6H_{12}O_2$ | 97-62-1 | C |
| HEPTANOIC ANHYDRIDE |  | $C_{14}H_{26}O_3$ | 626-27-7 | C |
| HEPTANOYL CHLORIDE |  | $C_7H_{13}ClO$ | 2528-61-2 | C |
| HEXANOIC ANHYDRIDE |  | $C_{12}H_{22}O_3$ | 2051-49-2 | L |
| HEXANOYL CHLORIDE |  | $C_7H_{13}ClO$ | 142-61-0 | L |
| 3-HYDROXYBUTYRIC ACID ETHYLESTER |  | $C_6H_{13}O_3$ | 5405-41-4 | P |
| 3-HYDROXY GLUTARIC ACID DIETHYLESTER |  | $C_7H_{12}O_5$ | 32328-03-3 | C |
| 3-HYDROXY GLUTARIC ACID DIMETHYLESTER |  | $C_5H_{12}O_5$ | 7250-55-7 | C |
| 2-HYDROXY OCTANOIC ACID |  | $C_8H_{16}O_3$ | 617-73-2 | C |
| METHYL PHENYL GLYOXYLATE (METHYL BENZOYL FORMATE) |  | $C_9H_8O_3$ | 15206-55-0 | C |

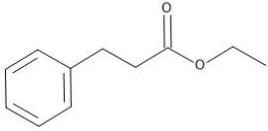
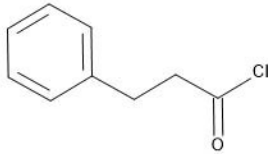
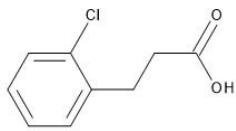
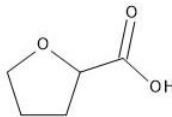
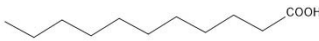
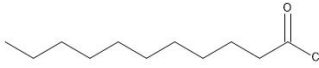
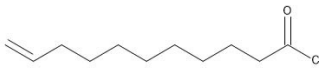
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---|---|-------------------|------------|-------|
| 4-METHYL VALERIANIC ACID |  | $C_6H_{12}O_2$ | 646-07-1 | C |
| 4-METHYL VALEROYL CHLORIDE (ISOCAPROYL CHLORIDE) |  | $C_6H_{11}ClO$ | 38136-29-7 | C |
| 6-METHOXYNAPHTHALENE ACETIC ACID |  | $C_{13}H_{12}O_3$ | 87901-81-3 | C |
| 1-NAPHTHOYL CHLORIDE |  | $C_{11}H_7ClO$ | 879-18-5 | C |
| 2-NAPHTHOYL CHLORIDE |  | $C_{11}H_7ClO$ | 2243-83-6 | C |
| 1-NAPHTOIC ACID |  | $C_{11}H_8O_2$ | 86-55-5 | C |
| 2-NAPHTOIC ACID |  | $C_{11}H_8O_2$ | 93-09-4 | C |
| 5-NORBORNENE 2-CARBOXYLIC ACID |  | $C_8H_{10}O_2$ | 120-74-1 | P |
| PALMITIC ANHYDRIDE |  | $C_{32}H_{62}O_3$ | 623-65-4 | P |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

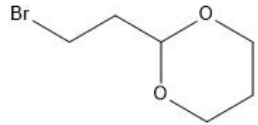
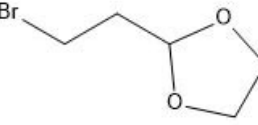
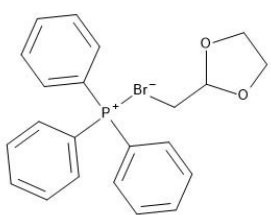
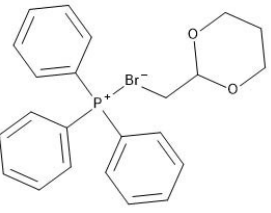
Acids, Acid Chlorides and Esters

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--------------------------------------|---|-------------------|------------|-------|
| PENTAN-1,5-DICARBOXYLIC ACID |  | $C_5H_8O_4$ | 111-16-0 | C |
| 4-PENTENOIC ACID |  | $C_5H_8O_2$ | 591-80-0 | C |
| 2-PHENOXY PROPIONYL CHLORIDE |  | $C_9H_9ClO_2$ | 122-35-0 | C |
| PHENYLACETYL CHLORIDE |  | C_8H_7ClO | 103-80-0 | C |
| 2-PHENYL BUTYRIC ACID |  | $C_{10}H_{12}O_2$ | 90-27-7 | C |
| 2-PHENYL BUTYRIC ACID CHLORIDE |  | $C_{10}H_{11}ClO$ | 36854-57-6 | C |
| 4-PHENYL BUTYRIC ACID, SPECIAL GRADE |  | $C_{10}H_{12}O_2$ | 1821-12-1 | C |
| 3-PHENYL PROPIONIC ACID |  | $C_9H_{10}O_2$ | 501-52-0 | C |
| 3-PHENYL PROPIONIC ACID CHLORIDE |  | C_9H_9ClO | 645-45-4 | P |

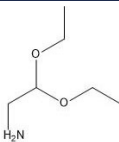
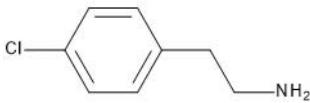
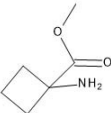
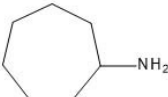
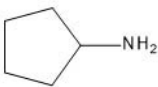
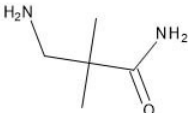
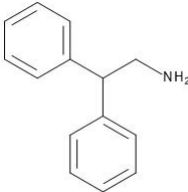
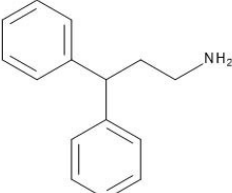
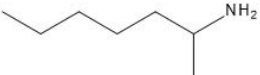
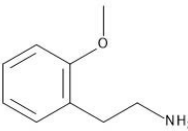
L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-------------------|------------|-------|
| 3-PHENYL PROPIONIC ACID ETHYL ESTER |  | $C_{11}H_{14}O_2$ | 2021-28-5 | P |
| 3-PHENYL PROPIONYL CHLORIDE |  | C_9H_9ClO | 645-45-4 | C |
| 3-(2-CHLOROPHENYL)-PROPIONIC ACID |  | $C_9H_9ClO_2$ | 1643-28-3 | L |
| TETRAHYDROFURAN-2- CARBOXYLIC ACID |  | $C_5H_8O_3$ | 16874-33-2 | C |
| UNDECANOIC ACID |  | $C_{11}H_{22}O$ | 112-37-8 | C |
| UNDECANOYL CHLORIDE |  | $C_{11}H_{21}ClO$ | 17746-05-3 | C |
| UNDECENOYL CHLORIDE |  | $C_{11}H_{19}ClO$ | 38460-95-6 | C |

Acrolein Derivatives

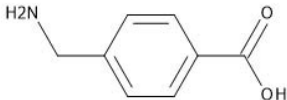
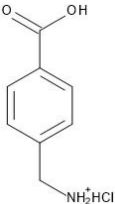
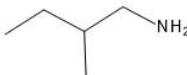
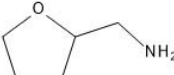
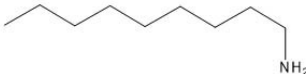
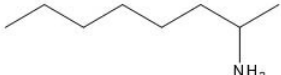
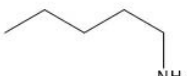

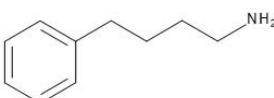
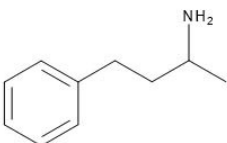
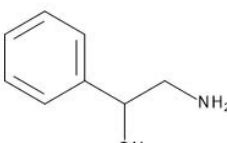
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-----------------------|------------|-------|
| 2-(2-BROMOETHYL) 1,3-DIOXANE (BED) |  | $C_6H_{11}BrO_2$ | 33884-43-4 | C |
| 2-(2-BROMOETHYL) 1,3-DIOXOLANE (BEDO) |  | $C_5H_9BrO_2$ | 18742-02-4 | C |
| 2-(1,3-DIOXOLANE 2-YL) ETHYL TRIPHENYL PHOSPHONIUM BROMIDE |  | $C_{23}H_{24}O_2P.Br$ | 86608-70-0 | P |
| 2-(1,3-DIOXAN 2-YL) ETHYL TRIPHENYL PHOSPHONIUM BROMIDE (DEPB) |  | $C_{24}H_{26}O_2P.Br$ | 69891-92-5 | C |

Amines

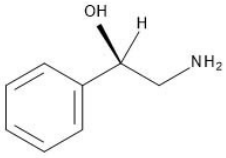
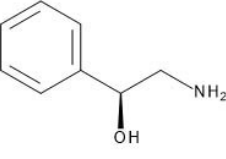
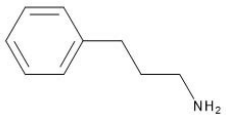
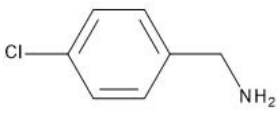
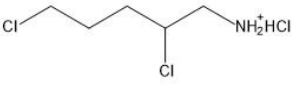
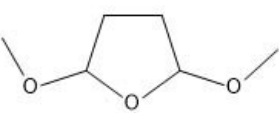
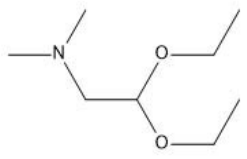
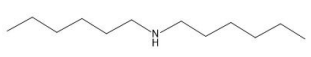
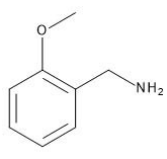
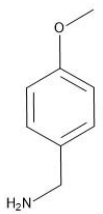
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-----------------|-------------|-------|
| AMINOACETALDEHYDE DIETHYLACETAL |  | $C_6H_{15}NO_2$ | 645-36-3 | P |
| 1-AMINO-2-(4-CHLOROPHENYL)- ETHANE |  | $C_9H_{13}N$ | 156-41-2 | C |
| 1-AMINOCYCLOBUTANE- CARBOXYLIC ACID METHYLESTER |  | $C_6H_{11}NO_2$ | 215597-35-6 | L |
| AMINOCYCLOHEPTANE |  | $C_7H_{15}N$ | 5452-35-7 | C |
| AMINOCYCLOPENTANE |  | $C_5H_{11}NO$ | 1003-03-8 | C |
| 3-AMINO-2,2-DIMETHYLPROPIO- NAMIDE |  | $C_5H_{12}N_2O$ | 324763-51-1 | P |
| 1-AMINO-2,2-DIPHENYLETHANE |  | $C_{14}H_{15}N$ | 3963-62-0 | C |
| 1-AMINO-3,3-DIPHENYLPROPANE |  | $C_{15}H_{17}N$ | 5586-73-2 | C |
| 2-AMINOHEPTANE |  | $C_7H_{17}N$ | 123-82-0 | C |
| 1-AMINO-2-(2-METHOXYPHENYL)- ETHANE |  | $C_9H_{13}N_1O$ | 2045-79-6 | P |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

Amines

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-------------------|------------|-------|
| 4-AMINOMETHYL BENZOIC ACID |  | $C_8H_9NO_2$ | 56-91-7 | L |
| 4-AMINOMETHYL-BENZOIC ACID HYDROCHLORIDE |  | $C_8H_{10}ClNO_2$ | 67688-72-6 | P |
| 1-AMINO-2-METHYL-BUTANE |  | $C_5H_{13}N$ | 96-15-1 | C |
| 2-AMINOMETHYL-TETRAHYDROFURAN |  | $C_5H_{11}NO$ | 4795-29-3 | P |
| 1-AMINONONANE |  | $C_9H_{21}N$ | 112-20-9 | P |
| 2-AMINO-OCTANE |  | $C_8H_{19}NO_2$ | 693-16-3 | P |
| 1-AMINOPENTANE |  | $C_5H_{13}N$ | 110-58-7 | C |
| 3-AMINOPENTANE |  | $C_5H_{13}N$ | 616-24-0 | C |
| 1-AMINO-4-PHENYLBUTANE |  | $C_{10}H_{15}N$ | 13214-66-9 | C |
| 2-AMINO-4-PHENYLBUTANE |  | $C_{19}H_{15}N$ | 22374-89-6 | C |
| 2-AMINO-1-PHENYLETHANOL |  | $C_8H_{11}NO$ | 7568-93-6 | P |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

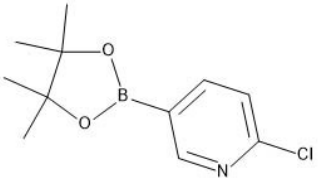
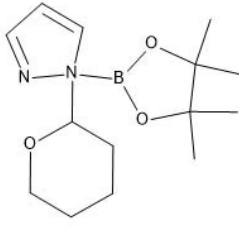
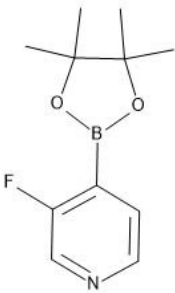
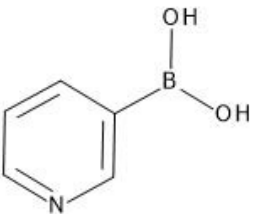
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---|---|-------------------|------------|-------|
| R-(-)-2-AMINO-1-PHENYLETHANOL |  | $C_8H_{11}NO$ | 2549-14-6 | L |
| S-2-AMINO-1-PHENYLETHANOL |  | $C_8H_{11}NO$ | 56613-81-1 | L |
| 1-AMINO-3-PHENYLPROPANE |  | $C_9H_{13}N$ | 2038-57-5 | C |
| 4-CHLOROBENZYLAMINE |  | C_7H_8ClN | 104-86-9 | P |
| 2,5-DICHLOROPENTYLAMINE HYDROCHLORIDE |  | $C_5H_{12}Cl_2N$ | 62922-45-6 | C |
| 2,5-DIMETHOXY Tetrahydrofuran, DMOTHF |  | $C_6H_{12}O_3$ | 696-59-3 | C |
| DIMETHYLAMINO ACETALDEHYDE DIETHYLACETAL |  | $C_8H_{19}N_1O_2$ | 3616-56-6 | C |
| DI-N-HEXYLAMINE |  | $C_{12}H_{27}N$ | 143-16-8 | C |
| 2-METHOXYBENZYLAMINE |  | $C_8H_{11}NO$ | 6850-57-3 | P |
| 4-METHOXYBENZYLAMINE |  | $C_8H_{11}NO$ | 2393-23-9 | C |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

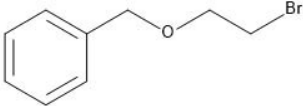
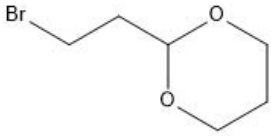
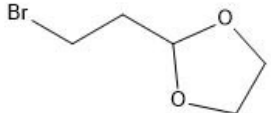
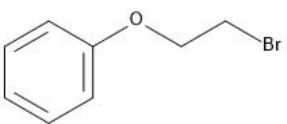
Amines

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---|-----------|-----------------|-------------|-------|
| METHYLAMINOACETALDEHYDE DIMETHYLACETAL | | $C_5H_{17}NO_2$ | 122-07-6 | C |
| 4-METHYLBENZYLAMINE | | $C_8H_{11}N$ | 104-84-7 | P |
| NEOPENTYLAMINE | | $C_5H_{13}N$ | 5813-64-9 | C |
| N-METHYLETHYLENEDIAMINE | | $C_3H_{19}N_2$ | 109-81-9 | P |
| N,N'-DIISOPROPYLETHYLENE DIAMINE | | $C_8H_{20}N_2$ | 4013-94-9 | C |
| N-(3-METHOXYPROPYL)-N- PENTYLAMINE | | $C_9H_{21}NO_2$ | 111106-31-1 | P |
| 3-(AMINOMETHYL)-PIPERIDINE | | $C_6H_{14}N_2$ | 23099-21-0 | P |
| TRI-N-HEPTYLAMINE | | $C_{30}H_{63}N$ | 2411-36-1 | P |
| TRI-N-HEXYLAMINE | | $C_{21}H_{45}N$ | 102-86-3 | C |
| VITAMIN E - TPGS - D-A- TOCOPHERYL POLYETHYLENE GLYCOL 1000 SUCCINATE | | $C_{27}H_{57}N$ | 9002-96-4 | C |

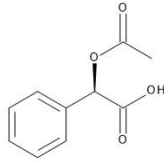
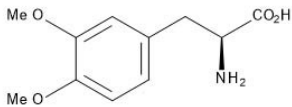
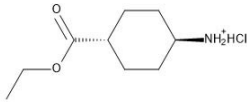
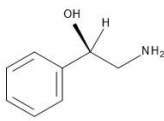
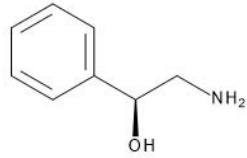
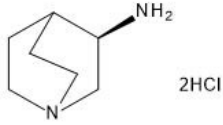
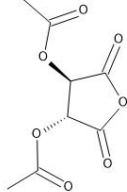
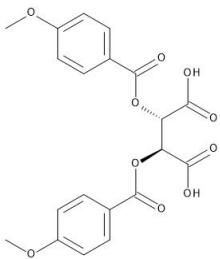
Boronic Acids

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-----------------------|-------------|-------|
| 2-CHLORO-5-(4,4,5,5-TETRAMETHYL-[1,3,2]-DIOXABOROLAN-2-YL)-PYRIDIN |  | $C_{11}H_{15}BClNO_2$ | 444120-94-9 | P |
| 1-(Tetrahydropyran-2-yl)-5-(4,4,5,5-tetramethyl-[1,3,2]-dioxaborolan-2-yl)-1H-pyrazole |  | $C_{14}H_{23}BN_2O_3$ | - | P |
| 3-FLUORO-4-(4,4,5,5-TETRAMETHYL-[1,3,2]-DIOXABOROLAN-2-YL)-PYRIDIN |  | $C_{11}H_{15}BFNO_2$ | 458532-88-2 | P |
| PYRIDIN-3-YL-BORONIC ACID |  | $C_5H_6BNO_2$ | 1692-25-7 | P |

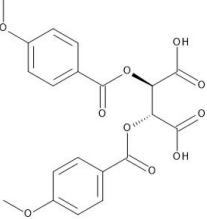
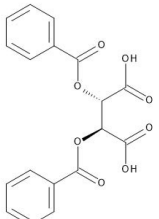
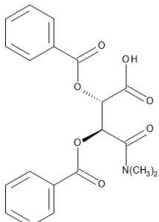
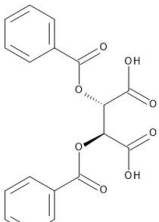
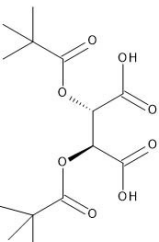
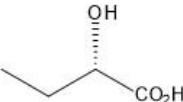
Brominated Derivatives

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---------------------------------------|--|---|------------|-------|
| BENZYL-2-BROMOETHYL ETHER |  | C₉H₁₁BrO | 1462-37-9 | P |
| 2-(2-BROMOETHYL) 1,3-DIOXANE (BED) |  | C₆H₁₁BrO₂ | 33884-43-4 | C |
| 2-(2-BROMOETHYL) 1,3-DIOXOLANE (BEDO) |  | C₅H₉BrO₂ | 18742-02-4 | C |
| PHENOXY ETHYL BROMIDE |  | C₈H₉BrO | 589-10-6 | C |

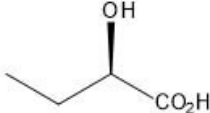
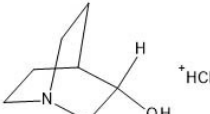
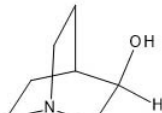
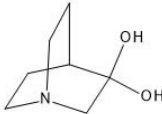
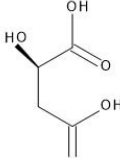
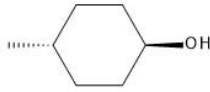
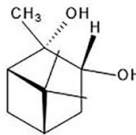
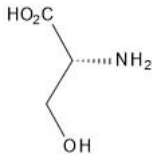
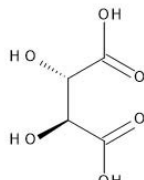
Chiral Building Blocks

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|---------------------------|-------------|-------|
| (R)-2-ACETOXY-2-PHENYL ACETIC ACID |  | $C_{10}H_{10}O_4$ | 51019-43-3 | C |
| 3-(3,4-DIMETHOXYPHENYL)-L-ALANINE (S-3,4-DMPA) |  | $C_{11}H_{15}NO_4$ | 32161-30-1 | P |
| ETHYL TRANS-4-AMINOCYCLOHEXYLCARBOXYLATE HYDROCHLORIDE |  | $C_9H_{18}ClNO_2$ | 2084-28-8 | L |
| R-(-)-2-AMINO-1-PHENYLETHANOL |  | $C_8H_{11}NO$ | 2549-14-6 | L |
| S-2-AMINO-1-PHENYLETHANOL |  | $C_8H_{11}NO$ | 56613-81-1 | L |
| (R)-(+)-3-AMINOQUINUCLIDINE DIHYDROCHLORIDE |  | $C_7H_{14}N_2 \cdot 2HCl$ | 123536-14-1 | L/P |
| L-(+)-O,O'-DIACETYL-TARTARICACID ANHYDRIDE |  | $C_8H_8O_7$ | 6283-74-5 | C |
| D-(+)-DIANISOYL-TARTARIC ACID |  | $C_{20}H_{18}O_{10}$ | 191605-10-4 | P |

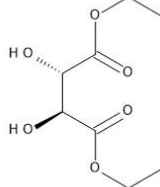
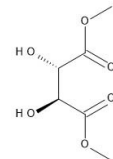
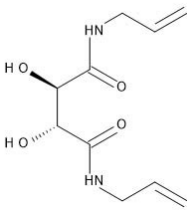
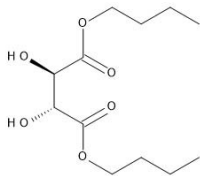
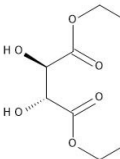
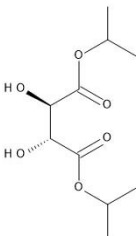
Chiral Building Blocks

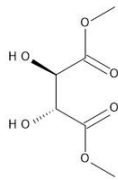
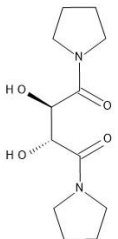
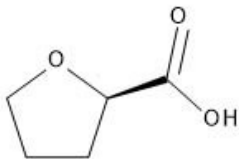
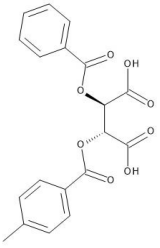
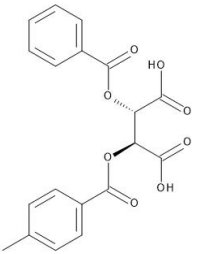
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---|---|----------------------|------------|-------|
| L-(-)-DIANISOYL-TARTARIC ACID |  | $C_{20}H_{18}O_{10}$ | 50583-51-2 | P |
| DIBENZOYL-D-(+)-TARTARIC ACID HYDRATE |  | $C_{18}H_{14}O_8$ | 80822-15-7 | C |
| (+)-DIBENZOYL-D-TARTARIC ACID MONODIMETHYLAMIDE |  | $C_{20}H_{19}NO_7$ | 36624-61-0 | P |
| DIBENZOYL-L-(-)-TARTARIC ACID |  | $C_{18}H_{14}O_8$ | 2743-38-6 | C |
| D-(+)-DIPIVALOYL TARTARIC ACID |  | $C_{14}H_{22}O_8$ | 76769-55-6 | P |
| (S)-2-HYDROXYBUTANOIC ACID |  | $C_4H_8O_3$ | 3347-90-8 | L/P |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---|---|-------------------|------------|-------|
| (R)-2-HYDROXYBUTANOIC ACID |  | $C_4H_8O_3$ | 20016-85-7 | L/P |
| R-(-)-3-HYDROXYQUINUCLIDINE HYDROCHLORIDE |  | $C_7H_{14}ClNO$ | 42437-96-7 | P |
| R-(-)-3-HYDROXYQUINUCLIDINE, PURUM |  | $C_7H_{13}NO$ | 25333-42-0 | C |
| S-(+)-3-HYDROXY QUINUCLIDINE |  | $C_7H_{13}NO$ | 34583-34-1 | P |
| D(+)-MALIC ACID |  | $C_4H_6O_5$ | 636-61-3 | C |
| TRANS-4-METHYLCYCLOHEXANOL |  | $C_7H_{14}O$ | 7731-29-5 | L |
| (+)-2,3-PINANEDIOL |  | $C_{10}H_{18}O_2$ | 18680-27-8 | C |
| D-SERINE |  | $C_3H_7NO_3$ | 312-84-5 | C |
| D-(-)-TARTARIC ACID |  | $C_4H_6O_6$ | 147-71-7 | C |

Chiral Building Blocks

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---|---|----------------------|------------|-------|
| D-(-)-TARTARIC ACID DIETHYLESTER |  | $C_8H_{14}O_6$ | 13811-71-7 | C |
| D-(-)-TARTARIC ACID DIMETHYLESTER |  | $C_6H_{10}O_6$ | 13171-64-7 | P |
| L-(+)-TARTARIC ACID DIALLYLAMIDE |  | $C_{10}H_{16}N_2O_4$ | 58477-85-3 | P |
| L-(+)-TARTARIC ACID DIBUTYLESTER |  | $C_{12}H_{22}O_6$ | 87-92-3 | P |
| L-(+)-TARTARIC ACID DIETHYLESTER |  | $C_8H_{14}O_6$ | 87-91-2 | P |
| L-(+)-TARTARIC ACID DIISOPROPYLESTER |  | $C_{10}H_{18}O_6$ | 2217-15-4 | P |

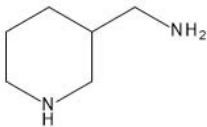
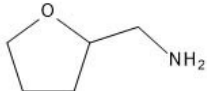

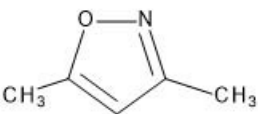
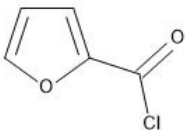
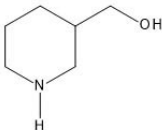
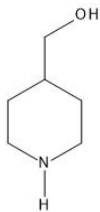
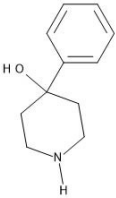
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|----------------------|------------|-------|
| L-(+)-TARTARIC ACID DIMETHYLESTER |  | $C_6H_{10}O_6$ | 608-68-4 | P |
| L-(+)-TARTARIC ACID DIPYRROLIDID |  | $C_{12}H_{20}N_2O_4$ | 63126-10-3 | P |
| S-(-)-TETRAHYDROFURAN CARBOXYLIC ACID |  | $C_5H_8O_3$ | 87392-07-2 | L |
| L-(-)-DI-P-TOLUOYL TARTARIC ACID |  | $C_{18}H_{14}O_8$ | 32634-66-5 | C |
| D-(+)-DI-P-TOLUOYL TARTARIC ACID HYDRATE |  | $C_{20}H_{18}O_8$ | 32634-68-7 | C |

Halogen Containing Derivatives

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---------------------------------------|-----------|----------------------|------------|-------|
| 1-AMINO-2-(4-CHLOROPHENYL)-ETHANE | | $C_9H_{10}ClNO_2$ | 2084-28-8 | L |
| ETHYL 7-BROMOHEPTANOATE | | $C_9H_{17}BrO_2$ | 29823-18-5 | C |
| 5-BROMOPENTYLACETATE | | $C_{10}H_{18}O_3$ | 15848-22-3 | P |
| 1-BROMO-3-PHENYLPROPANE | | $C_{10}H_{14}O_8$ | 637-59-2 | C |
| 4-CHLOROBENZYLAMINE | | $C_8H_9O_7$ | 594-36-5 | C |
| 2-CHLORO-2-METHYLBUTANE | | $C_{10}H_{16}N_2O_4$ | 58477-85-3 | P |
| 5-CHLOROSALICYLALDEHYDE | | $C_8H_7O_6$ | 635-93-8 | P |
| CYCLOPENTYLBROMIDE | | $C_{10}H_{18}O_6$ | 137-43-9 | P |
| CYCLOPENTYLCHLORIDE | | $V_6H_{10}O_6$ | 930-28-9 | P |
| 2,5-DICHLOROPENTYLAMINE HYDROCHLORIDE | | $C_{12}H_{20}N_2O_4$ | 62922-45-6 | P |
| 2-PHENYL ETHYL CHLORIDE | | C_8H_9Cl | 622-24-2 | C |
| 3-(2-CHLOROPHENYL)-PROPIONIC ACID | | $C_{12}H_{14}O_6$ | 1643-28-3 | P |

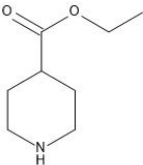
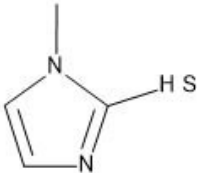
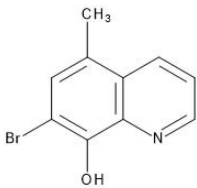
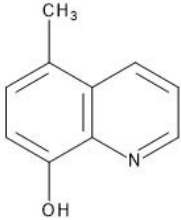
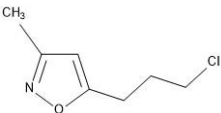
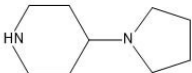
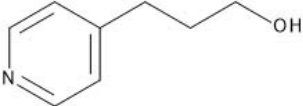
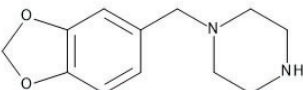
L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

Heterocyclic Building Blocks

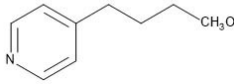
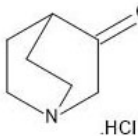
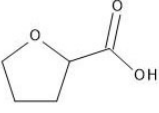
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---------------------------------------|---|------------------|------------|-------|
| 3-(AMINOMETHYL)-PIPERIDINE |  | $C_6H_{14}N_2$ | 23099-21-0 | P |
| 2-AMINOMETHYL-TETRAHYDROFURAN |  | $C_5H_{11}NO$ | 4795-29-3 | P |
| 2,5-DIMETHOXY TETRAHYDROFURAN, DMOTHF |  | $C_6H_{12}O_3$ | 696-59-3 | C |
| 3,5-DIMETHYLISOXAZOLE |  | C_5H_8NO | 300-87-8 | C |
| 2-FUROYL CHLORIDE |  | $C_5H_3ClO_2$ | 527-69-5 | C |
| 3-HYDROXYMETHYL-PIPERIDINE |  | $C_6H_{13}NO$ | 4606-65-9 | P |
| 4-HYDROXYMETHYL-PIPERIDINE |  | $C_6H_{13}NO$ | 6457-49-4 | P |
| 4-HYDROXY-4-PHENYLPYPERIDINE |  | $C_{11}H_{15}NO$ | 40807-61-2 | P |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

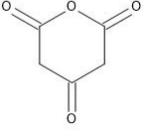
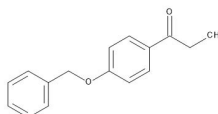
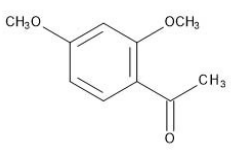
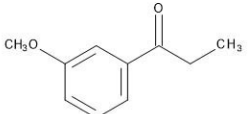
Heterocyclic Building Blocks

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---------------------------------------|---|----------------------|-------------|-------|
| ISONIPECOTIC ACID ETHYL ESTER |  | $C_8H_{14}NO_2$ | 1126-09-6 | L |
| 2-MERCAPTO-1-METHYLIMIDAZOLE |  | $C_4H_6N_2S$ | 60-56-0 | C |
| 5-METHYL 7-BROMO 8-HYDROXY QUINOLEINE |  | $C_{10}H_8BrNO$ | 7175-09-9 | C |
| 5-METHYL 8-HYDROXY QUINOLEINE |  | $C_{10}H_9NO$ | 5541-67-3 | C |
| 5-(3-CHLOROPROPYL) 3-METHYL ISOXAZOLE |  | $C_7H_{10}ClNO$ | 130800-76-9 | C |
| 4-(1-PYRROLIDINYL)-PIPERIDIN |  | $C_9H_{18}N_2$ | 5004-07-9 | P |
| 4-PIPERIDINE PROPANOL |  | $C_8H_{15}NO$ | 7037-49-2 | L |
| N-PIPERONYLPIPERAZINE |  | $C_{12}H_{16}N_2O_2$ | 32231-06-4 | P |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

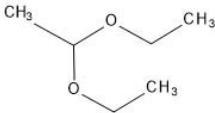
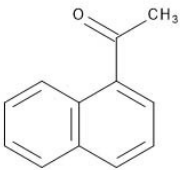
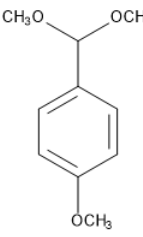
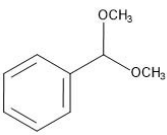
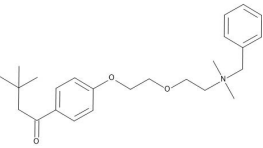
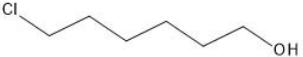
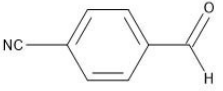
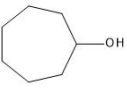
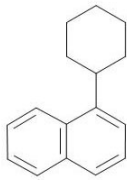
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|-----------------------------------|---|-------------------|------------|-------|
| 4-PYRIDINE PROPANOL |  | $C_8H_{11}NO$ | 2629-72-3 | C |
| 3-QUINUCLIDINONE HYDROCHLORIDE |  | $C_7H_{12}NO.HCl$ | 1193-65-3 | L |
| TETRAHYDROFURAN-2-CARBOXYLIC ACID |  | $C_5H_8O_3$ | 16874-33-2 | C |

Ketones


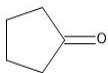
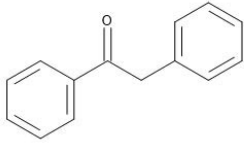
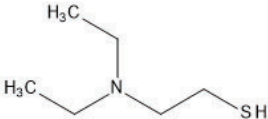
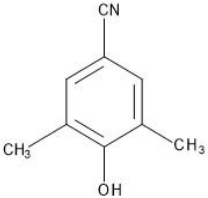
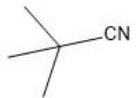
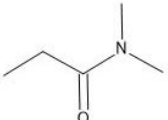
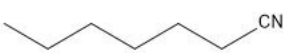
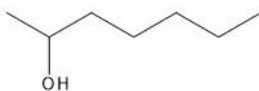
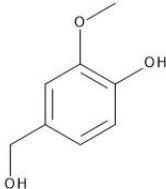
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-------------------|------------|-------|
| 1,3-ACETONEDICARBOXYLIC ACID ANHYDRIDE |  | $C_5H_4N_2O_4$ | 10521-08-1 | L |
| 4'-BENZYLOXY PROPIOPHENONE |  | $C_{16}H_{16}O_2$ | 4495-66-3 | C |
| 2',4'-DIMETHOXY ACETOPHENONE |  | $C_{10}H_{12}O_3$ | 829-20-9 | C |
| 3-METHOXY-PROPIOPHENONE |  | $C_{10}H_{12}O_2$ | 37951-49-8 | C |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

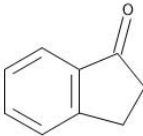
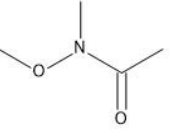
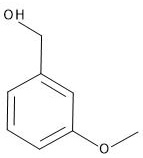
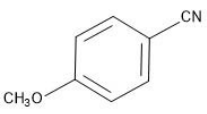

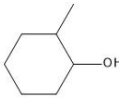
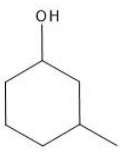

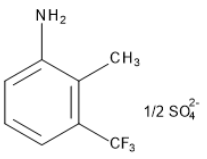
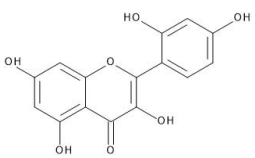
Miscellaneous Building Blocks

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---|---|-------------------|-----------|-------|
| ACETALDEHYDE DIETHYLACETAL (1,1-DIETHOXY ETHANE) |  | $C_6H_{14}O_2$ | 105-57-7 | C |
| 1-ACETYL NAPHTHALENE |  | $C_{12}H_{10}O$ | 941-98-0 | C |
| ANISALDEHYDE DIMETHYL ACETAL |  | $C_{10}H_{14}O_3$ | 2186-92-7 | P |
| BENZALDEHYDE DIMETHYL ACETAL |  | $C_9H_{12}O_2$ | 1125-88-8 | C |
| BENZETHONIUM CHLORIDE |  | $C_9H_{10}O$ | 121-54-0 | C |
| 6-CHLORO 1-HEXANOL |  | $C_6H_{13}ClO$ | 2009-83-8 | C |
| 4-CYANO BENZALDEHYDE |  | C_8H_5NO | 105-07-7 | P |
| CYCLOHEPTANOL |  | $C_7H_{14}O$ | 502-41-0 | P |
| 1-CYCLOHEXYLNAPHTHALENE |  | $C_{16}H_{18}$ | 3042-69-1 | C |

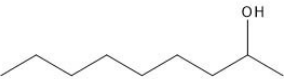
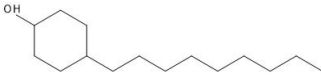


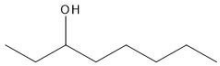
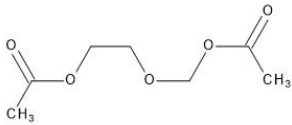
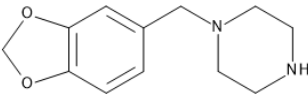
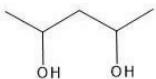
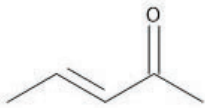
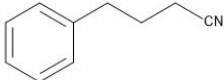
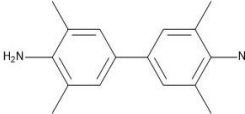
L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|-------------------------------------|---|-----------------|-----------|-------|
| CYCLOPENTANOL |  | $C_5H_{10}O$ | 96-41-3 | C |
| CYCLOPENTENE |  | C_5H_8 | 142-29-0 | C |
| DESOXYBENZOIN |  | $C_{14}H_{12}O$ | 451-40-1 | C |
| N,N-DIETHYLAMINOETHANETHIOL |  | $C_6H_{15}NS$ | 100-38-9 | P |
| 3,5-DIMETHYL 4-HYDROXY BENZONITRILE |  | C_9H_9NO | 4198-90-7 | C |
| 2,2-DIMETHYLPROPANOIC ACID NITRILE |  | $C_5H_9N_1$ | 630-18-2 | P |
| N,N-DIMETHYLPROPIONAMIDE |  | $C_5H_{11}N_2O$ | 758-96-3 | P |
| N-HEPTANOIC ACID NITRILE |  | $C_7H_{13}N$ | 629-08-3 | P |
| 2-HEPTANOL |  | $C_7H_{16}O$ | 543-49-7 | C |
| 4-HYDROXY-3-METHOXYBENZYLALCOHOL |  | $C_8H_{10}O_3$ | 498-00-0 | P |

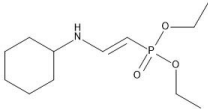
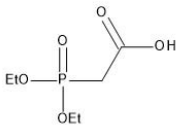
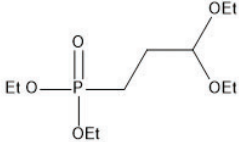
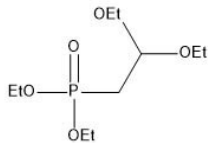
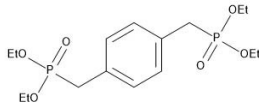
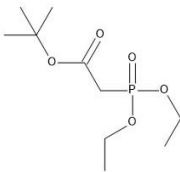
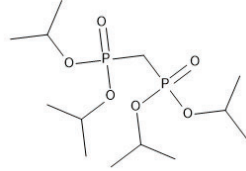
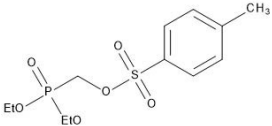
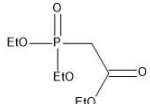
Miscellaneous Building Blocks

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|-------------------|------------|-------|
| 1-INDANONE |  | C_9H_8O | 83-33-0 | C |
| N-METHOXY-N-METHYLACETAMIDE |  | C_4H_9NO | 78191-00-1 | P |
| 3-METHOXYBENZYLALCOHOL |  | $C_8H_{10}O_2$ | 6971-51-3 | P |
| 4-METHOXY BENZONITRILE |  | C_8H_7NO | 874-90-8 | C |
| 3-METHYL-2-BUTANOL |  | $C_5H_{12}O$ | 598-75-4 | C |
| 2-METHYLCYCLOHEXANOL |  | $C_7H_{14}O$ | 583-59-5 | P |
| 3-METHYLCYCLOHEXANOL |  | $C_7H_{14}O$ | 591-23-1 | C |
| 4-METHYLCYCLOHEXANOL |  | $C_7H_{14}O$ | 589-91-3 | P |
| 2-METHYL 3-TRIFLUOROMETHYL ANILINE (HEMISULFATE) |  | $C_8H_8F_3N$ | 54396-44-0 | C |
| MORIN |  | $C_{15}H_{10}O_7$ | 480-16-0 | C |

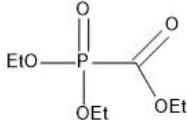
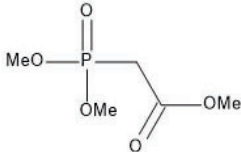
L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---------------------------------------|---|----------------------|------------|-------|
| 2-NONANOL |  | $C_9H_{20}O$ | 628-99-9 | P |
| 4 - NONYLCYCLOHEXANOL |  | $C_{15}H_{30}O$ | 4631-96-3 | P |
| 5-NORBORNENE 2-METHYLAMINE |  | $C_8H_{13}N$ | 95-10-3 | P |
| N-OCTANOIC ACID NITRILE |  | $C_8H_{15}N$ | 124-12-9 | C |
| 3-OCTANOL |  | $C_8H_{18}O$ | 589-98-0 | C |
| 2-OXOBUTANE 1,4-DIOL DIACETATE (OBDA) |  | $C_7H_{12}O_5$ | 59278-00-1 | C |
| N-PIPERONYLPIPERAZINE |  | $C_{12}H_{16}N_2O_2$ | 32231-06-4 | P |
| 2,4-PENTANEDIOL |  | $C_5H_{12}O_2$ | 625-69-4 | C |
| 3-PENTEN-2-ONE |  | C_5H_8O | 625-33-2 | P |
| 4-PHENYLBUTYRONITRILE |  | $C_{10}H_{11}N$ | 2046-18-6 | C |
| 3,3',5,5'-TETRAMETHYLBENZIDINE |  | $C_{15}H_{21}N$ | 54827-17-7 | C |

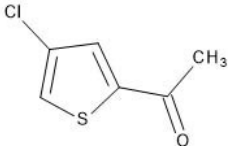
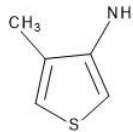
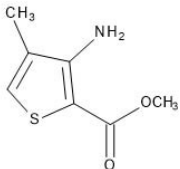
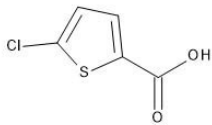
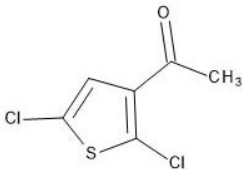
Phosphorous Derivatives

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|----------------------|------------|-------|
| DIETHYL-(E)-2-(CYCLOHEXYLAMINO)-VINYLPHOSPHONATE |  | $C_{12}H_{20}NO_2P$ | 20061-84-1 | P |
| DIETHYL PHOSPHONO ACETIC ACID |  | $C_6H_{13}O_5P$ | 3095-95-2 | C |
| DIETHYL DIETHOXYETHYL PHOSPHONATE |  | $C_{10}H_{23}O_5P$ | 7598-61-0 | C |
| DIETHYL PHOSPHONOMETHANOL |  | $C_5H_{13}O_4P$ | 3084-40-0 | C |
| DIETHYL-p-XYLENE-BIS-PHOSPHONATE |  | $C_{16}H_{28}O_6P_2$ | 4546-04-7 | P |
| TERTBUTYLDIETHYL PHOSPHONOACETATE |  | $C_{10}H_{21}O_5P$ | 27784-76-5 | P |
| TETRAISOPROPYL METHYLENE DIPHOSPHONATE |  | $C_{13}H_{30}O_6P_2$ | 1660-95-3 | C |
| TOSYLOXYMETHYL DIETHYL PHOSPHONATE |  | $C_{12}H_{19}NO_6PS$ | 31618-90-3 | C |
| TRIETHYL PHOSPHONOACETATE |  | $C_8H_{17}O_5P$ | 867-13-0 | C |

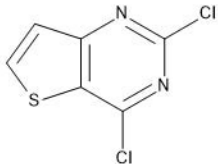
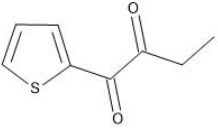
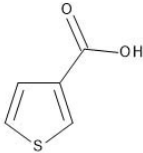
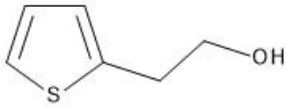
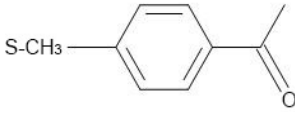
L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|----------------------------|---|-----------------|-----------|-------|
| TRIETHYL PHOSPHONOFORMATE |  | $C_5H_{15}O_5P$ | 1474-78-8 | C |
| TRIMETHYL PHOSPHONOACETATE |  | $C_5H_{11}O_5P$ | 5927-18-4 | C |

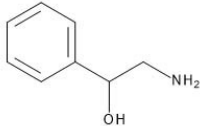
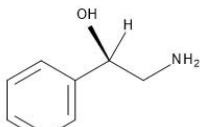
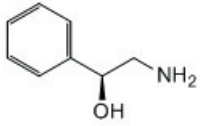
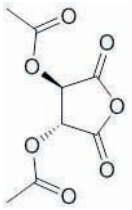
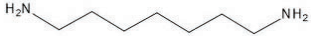
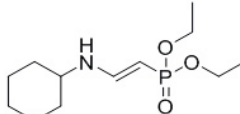
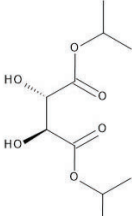
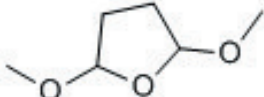
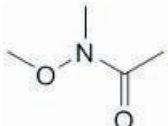
Thiophene Derivatives

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|----------------|------------|-------|
| 2-ACETYL-4-CHLORO THIOPHENE |  | C_6H_5ClOS | 34730-20-6 | C |
| 3-AMINO 4-METHYL THIOPHENE |  | C_5H_7NS | 23967-97-7 | P |
| 3-AMINO-4-METHYL THIOPHENE CARBOXYLIC ACID, METHYL ESTER |  | $C_7H_9NO_2S$ | 85006-31-1 | C |
| 5-CHLORO 2-THIOPHENE CARBOXYLIC ACID |  | $C_5H_3ClO_2S$ | 24065-33-6 | P |
| 2,5-DICHLORO 3-ACETYL THIOPHENE |  | $C_6H_4Cl_2OS$ | 36157-40-1 | C |

Thiophene Derivatives

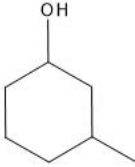
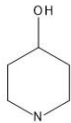
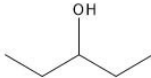
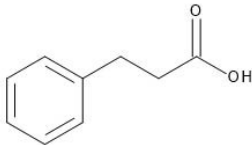
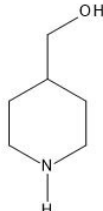
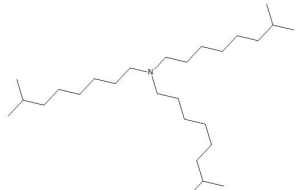
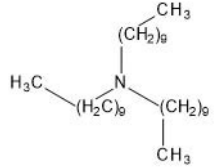
| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|---------------------------------------|---|---|------------|-------|
| 2,4-DICHLORO-THIENO[3,2-d]-PYRIMIDINE |  | C₆H₂Cl₂N₂S | 16234-14-3 | L |
| ETHYL 2-THIENYL GLYOXYLATE |  | C₈H₈O₃S | 4075-58-5 | C |
| 3-THIOPHENE CARBOXYLIC ACID |  | C₅H₄O₂S | 88-13-1 | P |
| 2-THIOPHENE ETHANOL |  | C₆H₈OS | 5402-55-1 | C |
| 4-ACETYL THIOANISOLE |  | C₉H₁₀O₂S | 1778-09-2 | L |

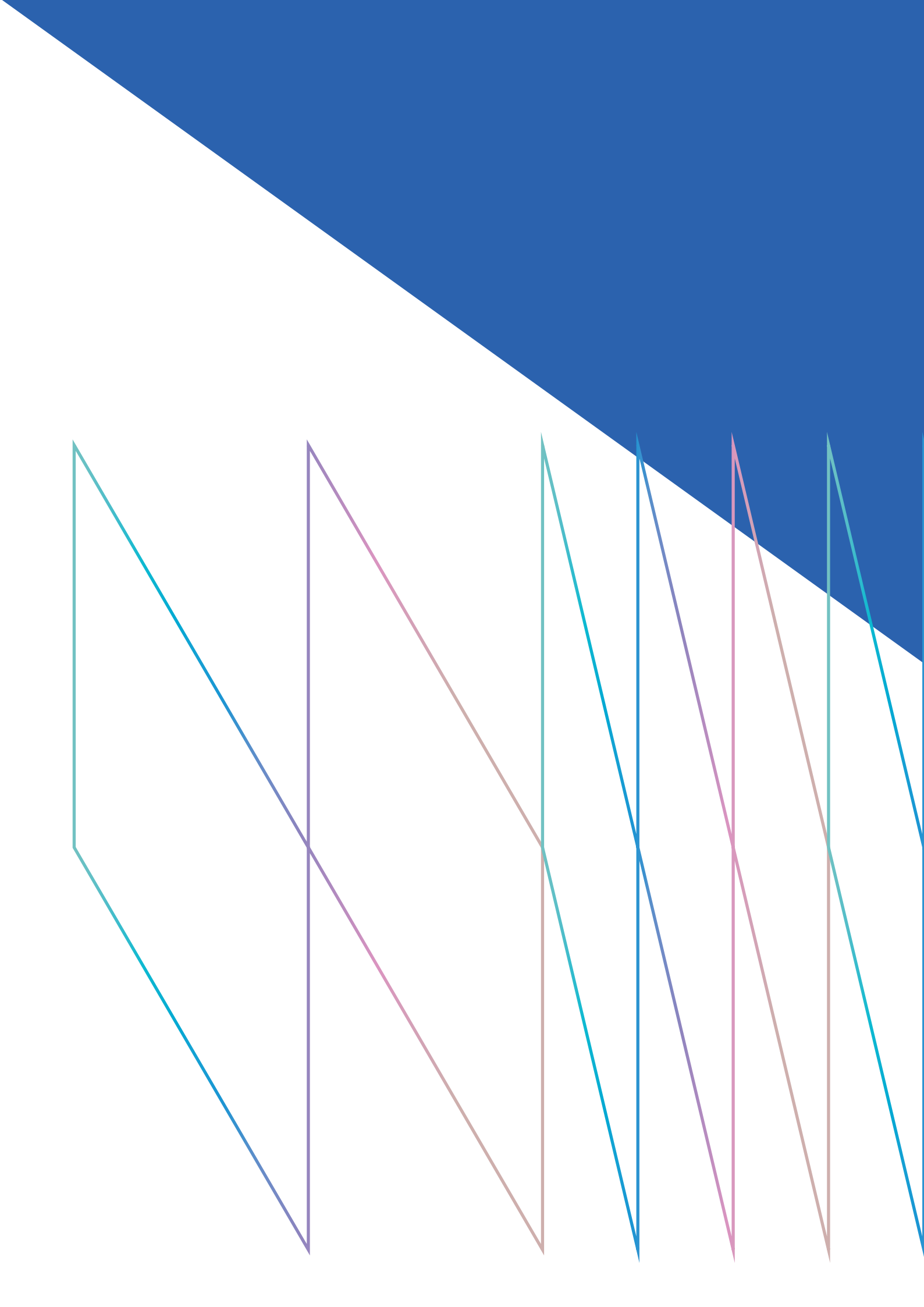
Miscellaneous

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|--|---|---|------------|-------|
| 2-AMINO-1-PHENYLETHANOL |  | $\text{NH}_2\text{CH}_2\text{CH(OH)}$ C_6H_5 | 7568-93-6 | L |
| R-(-)-2-AMINO-1-PHENYLETHANOL |  | $\text{C}_8\text{H}_{11}\text{NO}$ | 2549-14-6 | L |
| S-2-AMINO-1-PHENYLETHANOL |  | $\text{C}_8\text{H}_{11}\text{NO}$ | 56613-81-1 | L |
| L-(+)-O,O'-DIACETYL-TARTARICACID ANHYDRIDE |  | $\text{C}_8\text{H}_8\text{O}_7$ | 6283-74-5 | C |
| 1,7-DIAMINOHEPTANE |  | $\text{C}_7\text{H}_{18}\text{N}_2$ | 646-19-5 | P |
| DIETHYL-(E)-2-(CYCLOHEXYLAMINO)-VINYLPHOSPHONATE |  | $\text{C}_{12}\text{H}_{20}\text{N}_1\text{O}_2\text{P}_1$ | 20061-84-1 | P |
| DIISOPROPYL-D-(-)-TARTRATE |  | $\text{C}_{10}\text{H}_{18}\text{O}_6$ | 62961-64-2 | P |
| 2,5-DIMETHOXY TETRAHYDROFURAN, DMOTHF |  | $\text{C}_6\text{H}_{12}\text{O}_3$ | 696-59-3 | C |
| N-METHOXY-N-METHYLACETAMIDE |  | $\text{C}_4\text{H}_9\text{NO}_2$ | 78191-00-1 | |

L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

Miscellaneous

| PRODUCT | STRUCTURE | FORMULA | CAS N° | SCALE |
|----------------------------|---|-------------------|------------|-------|
| 3-METHYLCYCLOHEXANOL |  | $C_7H_{14}O$ | 591-23-1 | C |
| N-METHYL-4-PIPERIDINOL |  | $C_6H_{13}NO$ | 106-52-5 | P |
| 3-PENTANOL |  | $C_5H_{12}O$ | 584-02-1 | C |
| 3-PHENYLPROPIONIC ACID |  | $C_9H_{10}O_2$ | 501-52-0 | C |
| 4-(HYDROXYMETHYL)-PYRIDINE |  | C_6H_7NO | 586-95-8 | P |
| TRIISONONYLAMINE |  | $C_{18}H_{39}N$ | 38725-13-2 | P |
| TRI-N-DECYLAMINE |  | $C_{16}H_{20}N_2$ | 1070-01-5 | P |



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