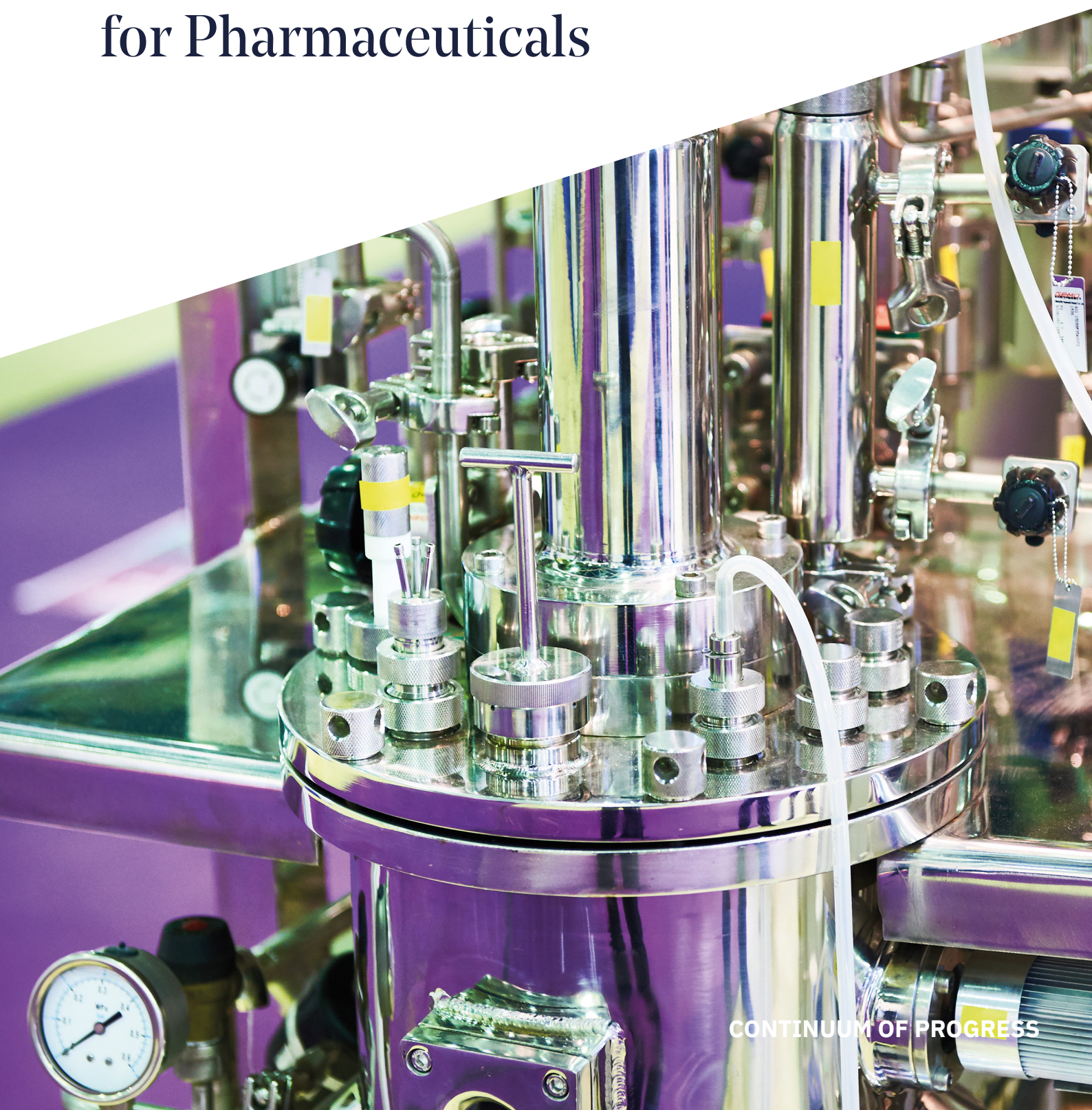


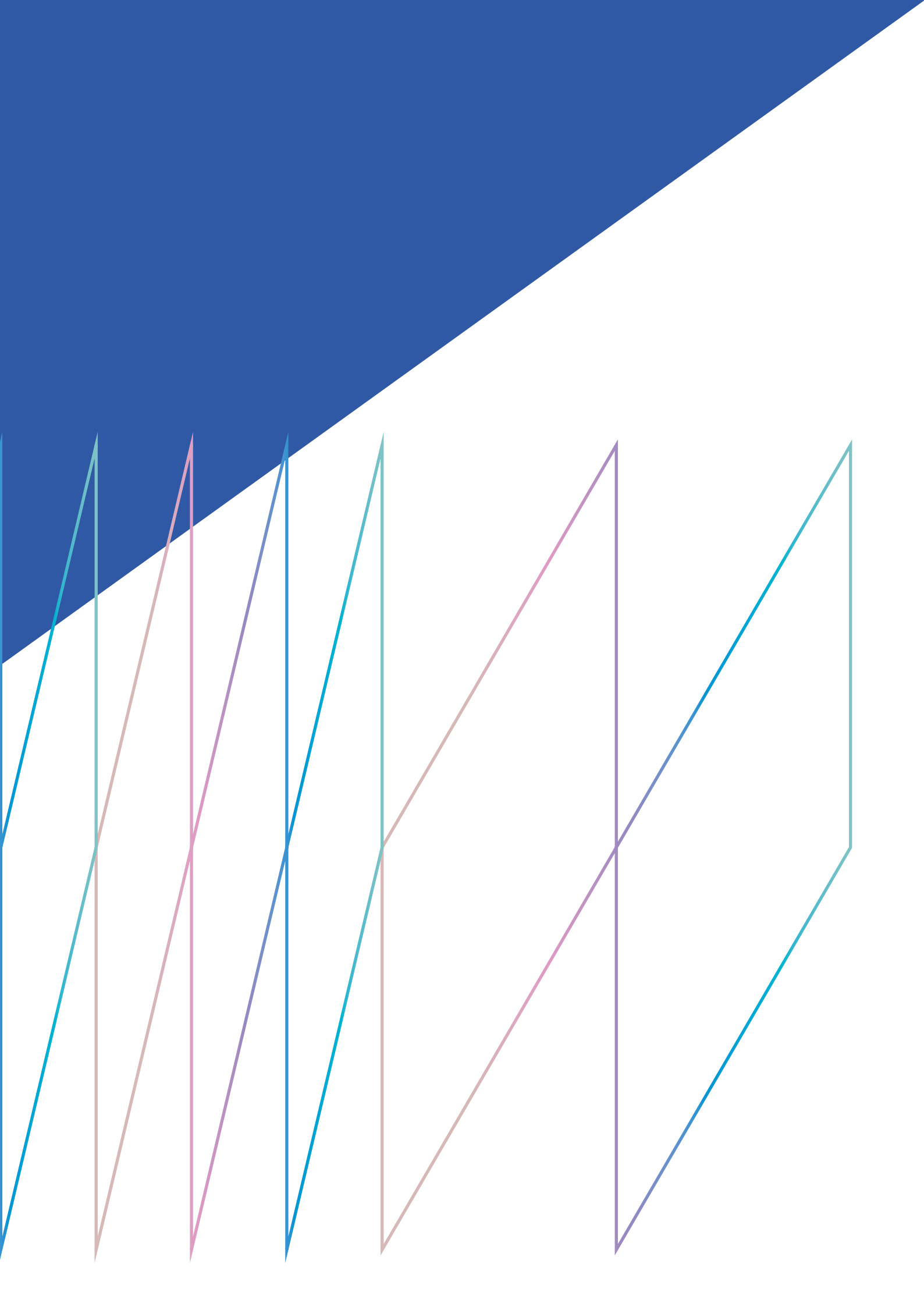
SEQENS

CDMO

Intermediates for Pharmaceuticals



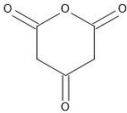
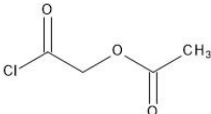
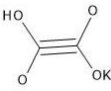
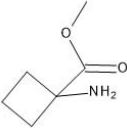
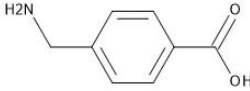
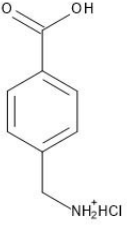
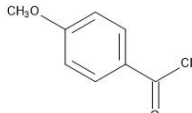
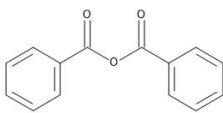
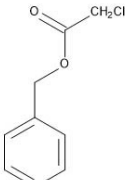
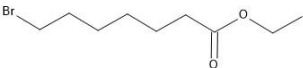
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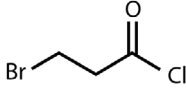
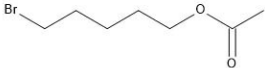
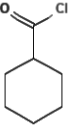
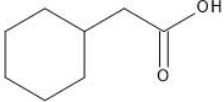
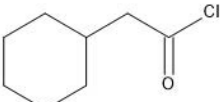
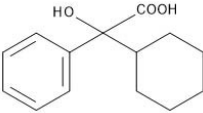
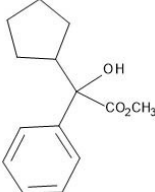
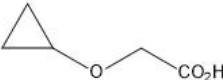
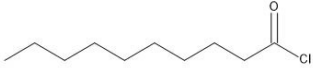
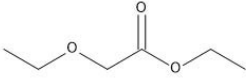
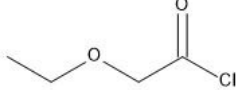
Index

Acids, Acid chlorides and Esters	4
Acrolein Derivatives	10
Amines.....	11
Amino Acids Building Blocks	15
Brominated Derivatives	16
Chiral Building Blocks	17
Halogen Containing Derivatives	22
Heterocyclic Building Blocks.....	23
Ketones.....	25
Miscellaneous	26
Phosphorus Derivatives	32
Thiophene Derivatives	34

Acids, Acid Chlorides and Esters

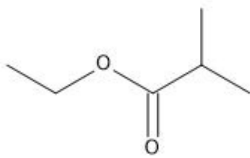
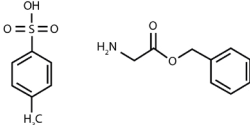
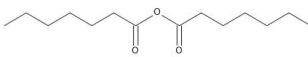
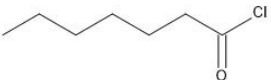
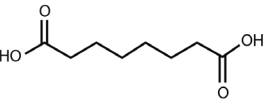
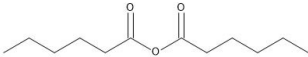
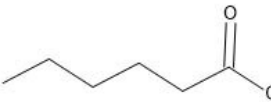
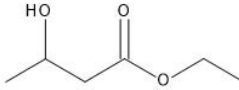
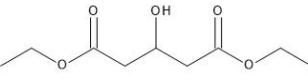
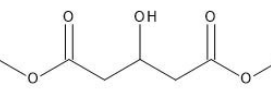
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
1,3-ACETONEDICARBOXYLIC ACID ANHYDRIDE		$C_5H_4N_2O_4$	10521-08-1	L
ACETOXY-ACETYL CHLORIDE		$C_4H_5ClO_3$	13831-31-7	P
ACETYLENEDICARBOXYLIC ACID MONO POTASSIUM SALT		C_4HKO_4	928-04-1	C
1-AMINOCYCLOBUTANE-CARBOXYLIC ACID METHYLESTER		$C_6H_{11}NO_2$	215597-35-6	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
BENZOIC ANHYDRIDE		$C_{14}H_{10}O_3$	93-97-0	C
BENZYL MONOCHLORACETATE		$C_9H_9ClO_2$	140-18-1	C
ETHYL 7-BROMOHEPTANOATE		$C_9H_{17}BrO_2$	29823-18-5	C

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

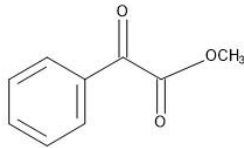
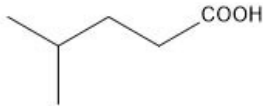
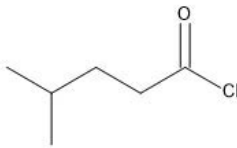
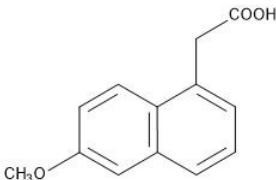
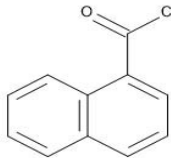
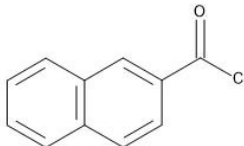
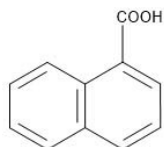
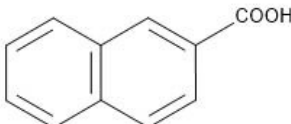
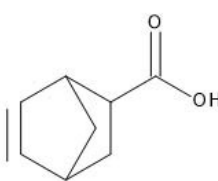
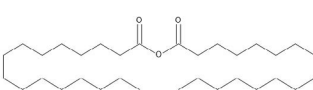
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
3-BROMOPROPIONYL CHLORIDE		C_3H_4BrCl	15486-96-1	C
5-BROMOPENTYLACETATE		$C_7H_{13}BrO_2$	15848-22-3	P
CYCLOHEXANE CARBONYL CHLORIDE (CHCC)		$C_7H_{11}ClO$	2719-27-9	C
CYCLOHEXYL ACETIC ACID		$C_7H_{12}O_2$	5292-21-7	P
CYCLOHEXYL ACETYL CHLORIDE		$C_7H_{11}O$	23860-35-7	P
CYCLOHEXYL MANDELIC ACID		$C_{14}H_{18}O_3$	4335-77-7	P
CYCLOPENTYL MANDELIC ACID METHYL ESTER		$C_{14}H_{18}O_3$	19833-96-6	P
CYCLOPROPYL ACETIC ACID		$C_5H_8O_3$	5617-84-5	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		$C_4H_7ClO_2$	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

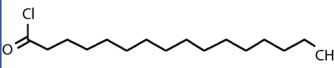
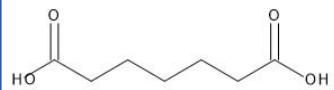
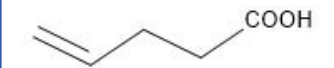
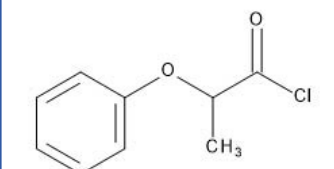
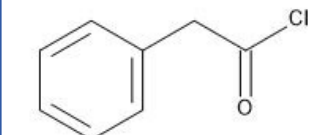
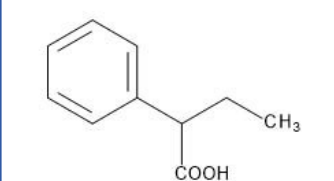
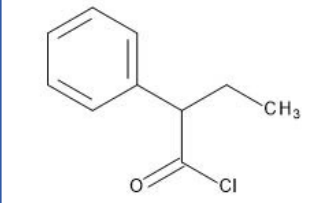
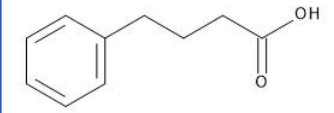
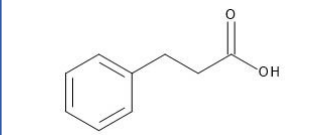
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
ETHYL ISOBUTYRATE		$C_6H_{12}O_2$	97-62-1	C
GLYCINE BENZYL ESTER, P-TOLUENESULFONATE		$C_{16}H_{19}NO_5S$	1738-68-7	C
HEPTANOIC ANHYDRIDE		$C_{14}H_{26}O_3$	626-27-7	C
HEPTANOYL CHLORIDE		$C_7H_{13}ClO$	2528-61-2	C
HEXANE-1,6-DICARBOXYLIC ACID		$C_8H_{14}O_4$	505-48-6	C
HEXANOIC ANHYDRIDE		$C_{12}H_{22}O_3$	2051-49-2	C
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

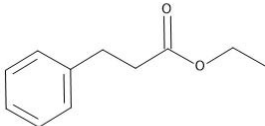
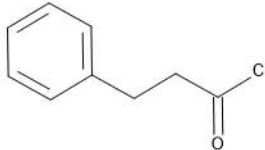
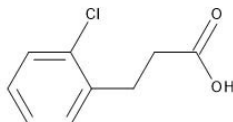
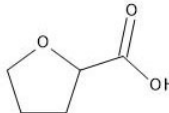
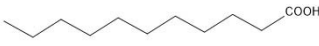
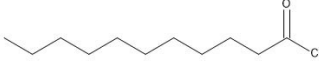
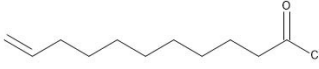
INTERMEDIATES FOR PHARMACEUTICALS

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
METHYL PHENYL GLYOXYLATE (METHYL BENZOYL FORMATE)		$C_9H_8O_3$	15206-55-0	C
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	P
1-NAPHTHOYL CHLORIDE		$C_{11}H_7ClO$	879-18-5	P
2-NAPHTHOYL CHLORIDE		$C_{11}H_7ClO$	2243-83-6	C
1-NAPHTHOIC ACID		$C_{11}H_8O_2$	86-55-5	L
2-NAPHTHOIC ACID		$C_{11}H_8O_2$	93-09-4	C
5-NORBORNENE 2-CARBOXYLIC ACID		$C_8H_{10}O$	120-74-1	P
PALMITIC ANHYDRIDE		$C_{32}H_{62}O_3$	623-65-4	L

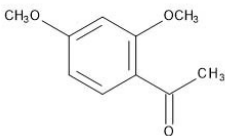
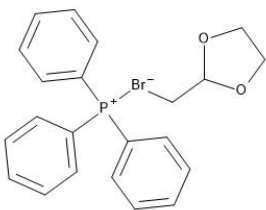
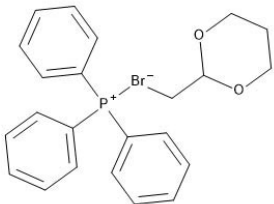
L: Laboratory (10-500 gm) - P: Pilot (1-100 kg) - C: Commercial (100 kg – 10+ Mt)

Acids, Acid Chlorides and Esters

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
PALMITOYLE CHLORIDE		$C_{16}H_{31}ClO$	112-67-4	C
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	P
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	L

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
3-PHENYL PROPIONIC ACID ETHYL ESTER		$C_{14}H_{18}O_2$	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		$C_{11}H_{22}O_2$	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

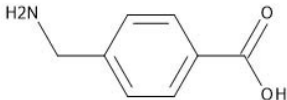
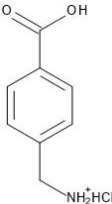
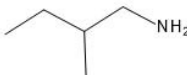
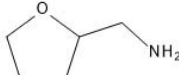
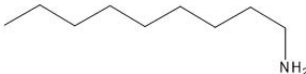
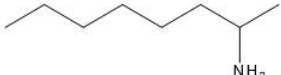
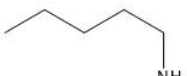

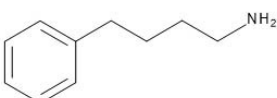
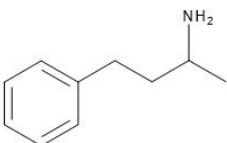
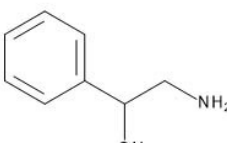
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
DIMÉTHOXY - 2,4 ACETOPHENONE		$C_{10}H_{12}O_3$	829-20-9	P
2-(1,3-DIOXOLANE 2-YL) ETHYL TRIPHENYL PHOSPHONIUM BROMIDE		$C_{23}H_{24}O_2P.Br$	86608-70-0	P
2-(1,3-DIOXAN 2-YL) ETHYL TRIPHENYL PHOSPHONIUM BROMIDE (DEPB)		$C_{24}H_{26}O_2P.Br$	69891-92-5	C

Amines

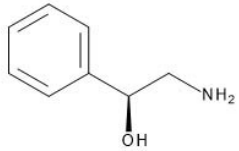
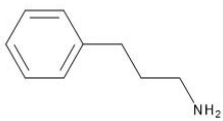
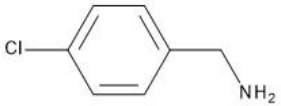
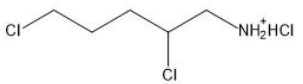

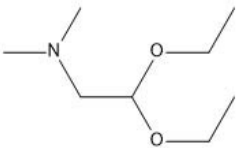
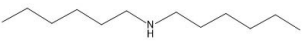
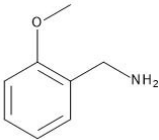
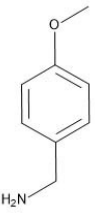
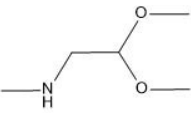
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
1-AMINO-2-(4-CHLOROPHENYL)-ETHANE		$C_5H_{13}N$	156-41-2	C
1-AMINOCYCLOBUTANE-CARBOXYLIC ACID METHYLESTER		$C_6H_{11}NO_2$	215597-35-6	L
AMINOCYCLOHEPTANE		$C_7H_{15}N$	5452-35-7	C
AMINOCYCLOPENTANE		$C_5H_{11}NO$	1003-03-8	C
3-AMINO-2,2-DIMETHYLPROPIO-NAMIDE		$C_5H_{12}N_2O$	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
HEXYLAMINE		$C_6H_{15}N$	111-26-2	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)

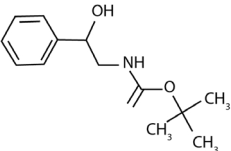
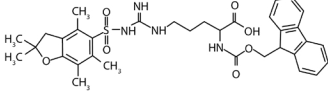
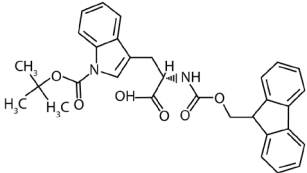
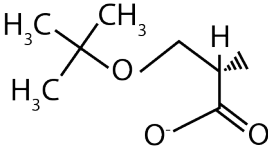
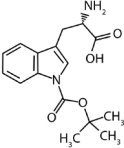
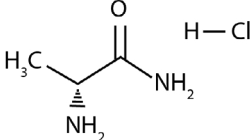
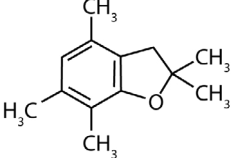
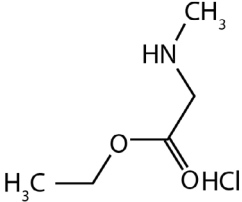
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
S-2-AMINO-1-PHENYLETHANOL		$C_8H_{11}NO$	56613-81-1	L
1-AMINO-3-PHENYLPROPANE		$C_9H_{13}N$	2038-57-5	C
4-CHLOROBENZYLAMINE		C_7H_8ClN	104-86-9	P
2,5-DICHLOROPENTYLAMINE HYDROCHLORIDE		$C_5H_{12}Cl_2N$	62922-45-6	C
2,5-DIMETHOXY TETRAHYDROFURAN, DMOTHF		$C_6H_{12}O_3$	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
METHYLAMINOACETALDEHYDE DIMETHYLACETAL		$C_5H_{17}NO_2$	122-07-6	C

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

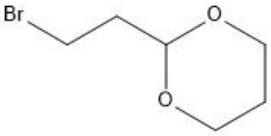
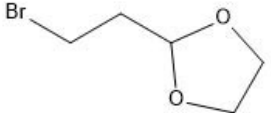
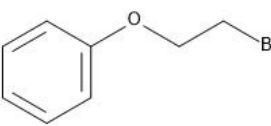
Amines

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
4-METHYLBENZYLAMINE		$C_8H_{11}N$	104-84-7	P
N-BENZYL-2-PHENYLETHYLAMIN-DIACETAT		$C_{19}H_{25}O_4$	94094-72-1	C
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
5-NONANONE		$C_9H_{18}O$	502-56-7	C
2-PHENYLETHYLAMINE		$C_8H_{11}N$	64-04-0	C
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

Amino Acids Building blocks

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
BOC-D-PHENYLGLYCINOL		$C_{13}H_{19}NO_3$	102089-74-7	C
FMOC-D-ARG(PBF)-OH		$C_{34}H_{40}N_4O_7S$	187618-60-6	C
FMOC-L-TRP-(BOC)-OH		$C_{31}H_{30}N_2O_6$	143824-78-6	C
H-SER(TBU)-OH		$C_7H_{15}NO_3$	18822-58-7	C
H-TRP-(BOC)-OH		$C_{16}H_{20}N_2O_4$	146645-63-8	C
L-ALANINAMIDE HYDROCHLORIDE		$C_3H_9ClN_2O$	33208-99-0	C
2,2,4,6,7-PENTAMETHYL-BENZOFURANE		$C_{13}H_{18}O$	142874-81-5	C
ETHYL SARCOsinATE HYDROCHLORIDE		$C_5H_{12}ClNO_2$	52605-49-9	C

Brominated Derivatives

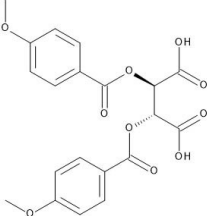
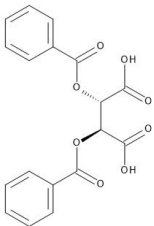
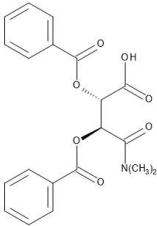
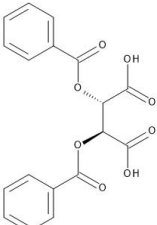
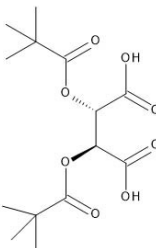
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
2-(2-BROMOETHYL) 1,3-DIOXANE (BED)		$C_6H_{11}BrO_2$	33884-43-4	C
2-(2-BROMOETHYL) 1,3-DIOXOLANE (BEDO)		$C_5H_9BrO_2$	18742-02-4	C
PHENOXY ETHYL BROMIDE		C_8H_9BrO	589-10-6	C

Chiral Building Blocks

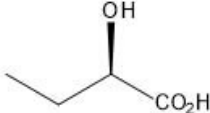
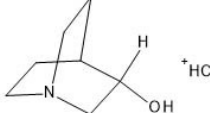
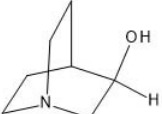
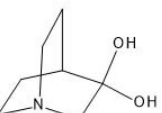
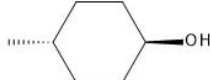
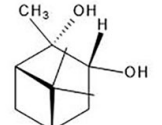
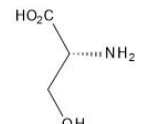
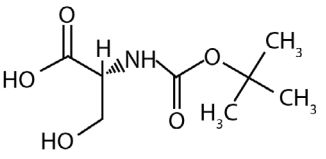
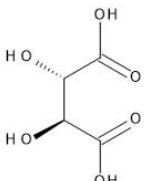
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
TRANS-4-AMINOCYCLOHEXANE CARBOXYLIC ACID, HYDROCHLORIDE		$C_7H_{14}ClNO_2$	27960-59-4	L
METHYL 4-AMINOCYCLOHEXANE-CARBOXYLATE HYDROCHLORIDE		$C_8H_{16}ClNO_2$	61367-07-5	L
ETHYL TRANS-4-AMINOCYCLOHEXANECARBOXYLATE HYDROCHLORIDE		$C_9H_{18}ClNO_2$	2084-28-8	L
(R)-2-(AMINOMETHYL)-1-ETHYLPYRROLIDINE		$C_7H_{15}N_2$	22795-97-7	C
(S)-2-(AMINOMETHYL)-1-ETHYLPYRROLIDINE		$C_7H_{16}N_2$	22795-99-9	C
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
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

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

Chiral Building Blocks

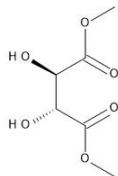
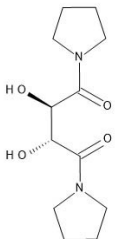
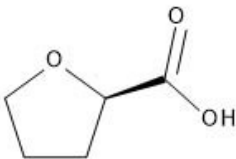
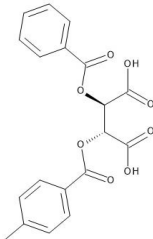
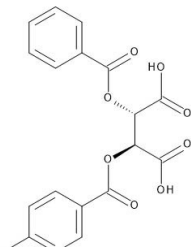
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
L-(-)-DIANISOYL-TARTARIC ACID		$C_{20}H_{18}O_{10}$	50583-51-2	P
DIBENZOYL-D-(+)-TARTARIC ACID HYDRATE		$C_{18}H_{14}O_8$	80822-15-7	C
(+)-DIBENZOYL-D-TARTARIC ACID MONODIMETHYLAMIDE		$C_{20}H_{19}NO_7$	36624-61-0	P
DIBENZOYL-L-(-)-TARTARIC ACID		$C_{18}H_{14}O_8$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

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
TRANS-4-METHYLCYCLOHEXANOL		$C_7H_{14}O$	7731-29-5	L
(+)-2,3-PINANEDIOL		$C_{10}H_{18}O_2$	18680-27-8	P
D-SERINE		$C_3H_7NO_3$	312-84-5	C
N-BOC-D-SERINE		$C_8H_{15}NO_5$	6368-20-3	C
D-(-)-TARTARIC ACID		$C_4H_6O_6$	147-71-7	C

Chiral Building Blocks

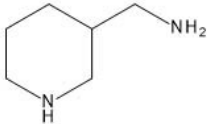
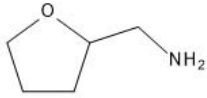
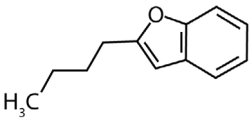
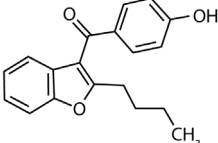

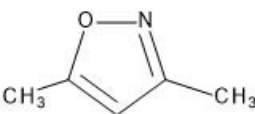
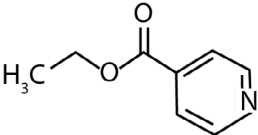
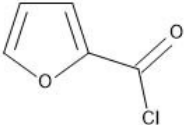
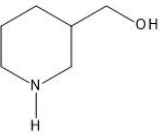
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
D-(-)-TARTARIC ACID DIETHYLESTER		$C_8H_{14}O_6$	13811-71-7	C
D-(-)-TARTARIC ACID DIMETHYLESTER		$C_6H_{10}O_6$	13171-64-7	P
L-(+)-TARTARIC ACID DIALLYLAMIDE		$C_{10}H_{16}N_2O_4$	58477-85-3	P
L-(+)-TARTARIC ACID DIBUTYLESTER		$C_{12}H_{22}O_6$	87-92-3	P
L-(+)-TARTARIC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

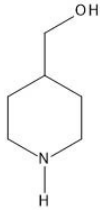
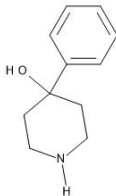
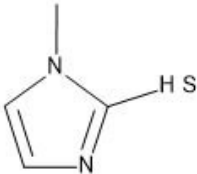
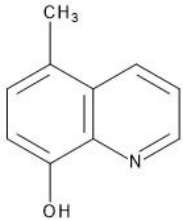
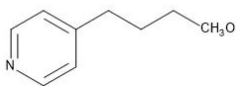
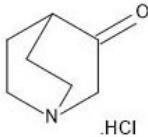
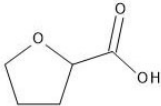
Halogen Containing Derivatives

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
1-AMINO-2-(4-CHLOROPHENYL)-ETHANE		$C_8H_{10}ClN$	156-41-2	L
ETHYL 7-BROMOHEPTANOATE		$C_9H_{17}BrO_2$	29823-18-5	C
5-BROMOPENTYLACETATE		$C_{10}H_{18}O_2$	15848-22-3	P
1-BROMO-3-PHENYLPROPANE		$C_{10}H_{12}Br$	637-59-2	C
4-CHLOROBENZYLAMINE		C_7H_8ClN	104-86-9	P
2-CHLORO-2-METHYLBUTANE		$C_5H_{10}Cl$	594-36-5	C
CYCLOPENTYLBROMIDE		C_5H_9Br	137-43-9	C
CYCLOPENTYLCHLORIDE		C_5H_9Cl	930-28-9	C
2,5-DICHLOROPENTYLAMINE HYDROCHLORIDE		$C_5H_{10}Cl_2N$	62922-45-6	C
2-PHENYL ETHYL CHLORIDE		C_8H_9Cl	622-24-2	C
3-(2-CHLOROPHENYL)-PROPIONIC ACID		$C_9H_9ClO_2$	1643-28-3	L

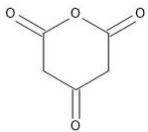
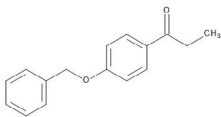
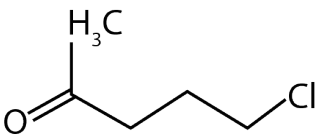
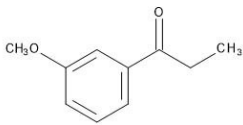
Heterocyclic Building Blocks

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-BUTYLBENZOFURAN		$C_{12}H_{14}O$	4265-27-4	C
(2-BUTYLBENZOFURAN-3-YL) (4-HYDROXYPHENYL)METHANONE		$C_{19}H_{18}O_3$	52490-15-0	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
ETHYL ISONICOTINATE		$C_8H_9NO_2$	1570-45-2	L
2-FUROYL CHLORIDE		$C_5H_3ClO_2$	527-69-5	C
3-HYDROXYMETHYL-PIPERIDINE		$C_6H_{13}NO$	4606-65-9	P

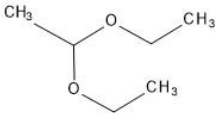
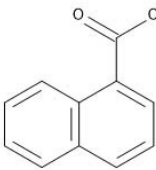
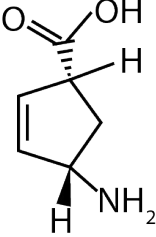
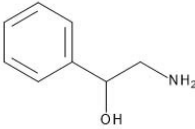
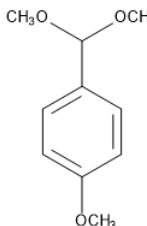
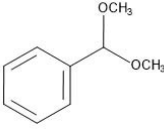
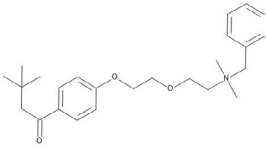
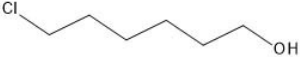
Heterocyclic Building Blocks

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
4-HYDROXYMETHYL-PIPERIDINE		$C_6H_{13}NO$	6457-49-4	P
4-HYDROXY-4-PHENYLPYPERIDINE		$C_{11}H_{15}NO$	40807-61-2	P
2-MERCAPTO-1-METHYLIMIDAZOLE		$C_4H_6N_2S$	60-56-0	C
5-METHYL 8-HYDROXY QUINOLEINE		$C_{10}H_9NO$	5541-67-3	C
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


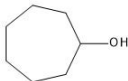

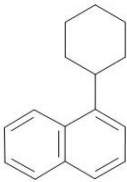

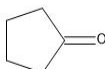
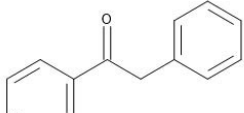
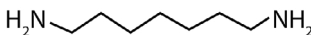
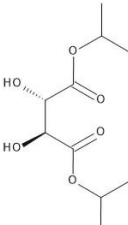
Ketones

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
5-CHLORO-2-PENTANONE		C_5H_9ClO	5891-21-4	P
3-METHOXY-PROPIOPHENONE		$C_{10}H_{12}O_2$	37951-49-8	P

Miscellaneous

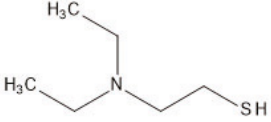
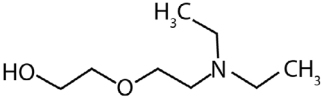
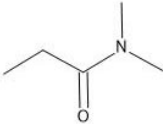
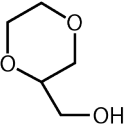


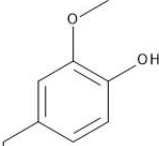
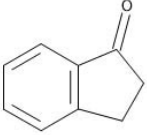
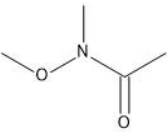
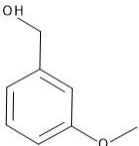
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
ACETALDEHYDE DIETHYLACETAL (1,1-DIETHOXY ETHANE)		$C_6H_{14}O_2$	105-57-7	C
1-ACETYL NAPHTHALENE		$C_{12}H_{10}O$	941-98-0	P
(1R,4S)-AMINOCYCLOPENT-ENE-1 CARBOXYLIC ACID		$C_6H_9NO_2$	134003-04-6	L
R-(-)-2-AMINO-1-PHENYLETHANOL		$C_8H_{11}NO$	2549-14-6	L
ANISALDEHYDE DIMETHYL ACETAL		$C_{10}H_{14}O_3$	2186-92-7	C
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

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

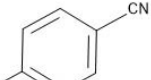

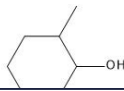
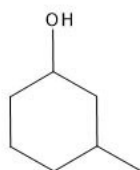

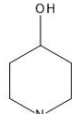
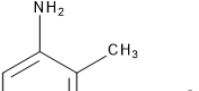
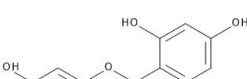
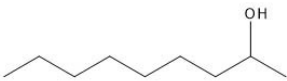
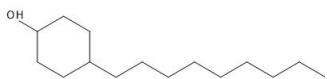

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
4-CYANO BENZALDEHYDE		C_8H_5NO	105-07-7	P
CYCLOHEPTANOL		$C_7H_{14}O$	502-41-0	P
4-CYANO BENZALDEHYDE		C_8H_5NO	105-07-7	P
1-CYCLOHEXYLNAPHTHALENE		$C_{16}H_{18}$	3042-69-1	P
CYCLOPENTANOL		$C_5H_{10}O$	96-41-3	C
CYCLOPENTENE		C_5H_8	142-29-0	C
DESOXYBENZOIN		$C_{14}H_{12}O$	451-40-1	C
1,7-DIAMINOHEPTANE		$C_7H_{18}N_2$	646-19-5	P
DIISOPROPYL-D-(-)-TARTRATE		$C_{10}H_{18}O_6$	62961-64-2	P

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

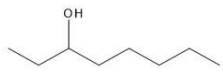
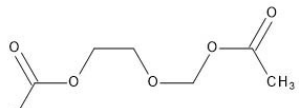
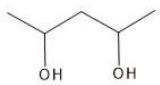
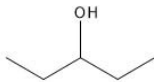
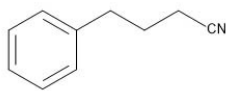
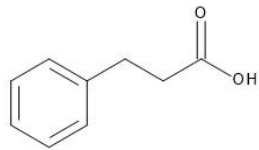
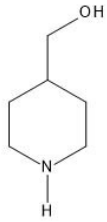
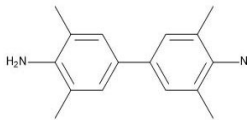
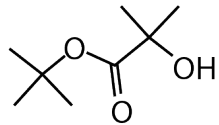
Miscellaneous

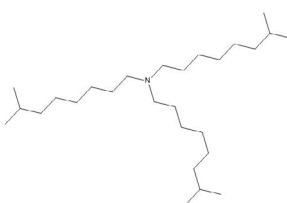
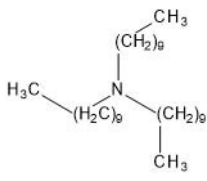
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
N,N-DIETHYLAMINOETHANETHIOL		$C_6H_{15}NS$	100-38-9	P
2-(2-DIETHYLAMINOETHOXY) ETHANOL		$C_8H_{19}NO_2$	140-82-9	C
N,N-DIMETHYLPROPIONAMIDE		$C_5H_{11}N_1O$	758-96-3	P
(2R)-1,4-DIOXAN-2-YLMETHANOL		$C_5H_{10}O_3$	406913-88-0	L
N-HEPTANOIC ACID NITRILE		$C_7H_{13}N$	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
1-INDANONE		C_9H_8O	83-33-0	P
N-METHOXY-N-METHYLACETAMIDE		C_4H_9NO	78191-00-1	P
3-METHOXYBENZYLALCOHOL		$C_8H_{10}O_2$	6971-51-3	P

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

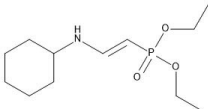
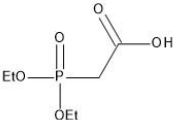
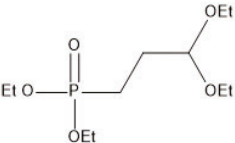
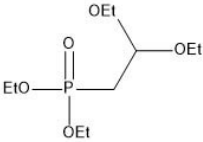
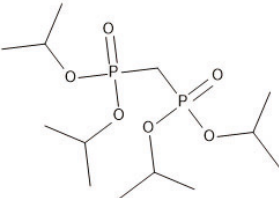
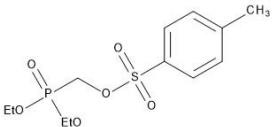
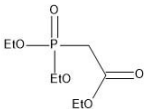
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
4-METHOXY BENZONITRILE		C_8H_7NO	874-90-8	P
3-METHYL-2-BUTANOL		$C_5H_{12}O$	598-75-4	C
2-METHYLCYCLOHEXANOL		$C_7H_{14}O$	583-59-5	P
3-METHYLCYCLOHEXANOL		$C_7H_{14}O$	591-23-1	C
4-METHYLCYCLOHEXANOL		$C_7H_{14}O$	589-91-3	P
N-METHYL-4-PIPERIDINOL		$C_6H_{13}NO$	106-52-5	L
2-METHYL 3-TRIFLUOROMETHYL ANILINE (HEMISULFATE)		$C_8H_8F_3N$	54396-44-0	P
MORIN		$C_{15}H_{10}O_7$	480-16-0	C
2-NONANOL		$C_9H_{20}O$	628-99-9	P
4 - NONYLCYCLOHEXANOL		$C_{15}H_{30}O$	4631-96-3	P
N-OCTANOIC ACID NITRILE		$C_8H_{15}N$	124-12-9	C

Miscellaneous

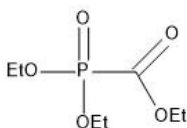
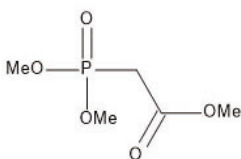
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
3-OCTANOL		$C_8H_{18}O$	589-98-0	C
2-OXOBUTANE 1,4-DIOL DIACETATE (OBDA)		$C_7H_{12}O_5$	59278-00-1	C
2,4-PENTANEDIOL		$C_5H_{12}O_2$	625-69-4	C
3-PENTANOL		$C_5H_{12}O$	584-02-1	C
4-PHENYLBUTYRONITRILE		$C_{10}H_{11}N$	2046-18-6	C
3-PHENYLPROPIONIC ACID		$C_9H_{10}O_2$	501-52-0	C
4-(HYDROXYMETHYL)-PYRIDINE		C_6H_7NO	586-95-8	p
3,3',5,5'-TETRAMETHYLBENZIDINE		$C_{18}H_{17}N_2$	54827-17-7	C
TERT-BUTYL 2-HYDROXYISOBUTYRATE (TBHIB)		$C_8H_{16}O_3$	36293-63-7	C

PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
TRIISONONYLAMINE		$C_{18}H_{39}N$	38725-13-2	C
TRI-N-DECYLAMINE		$C_{16}H_{20}N_2$	1070-01-5	P

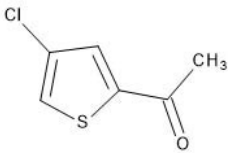
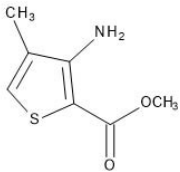
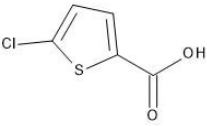
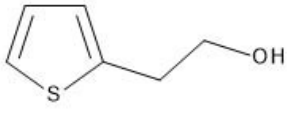
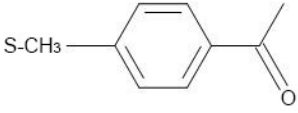
Phosphorus Derivatives

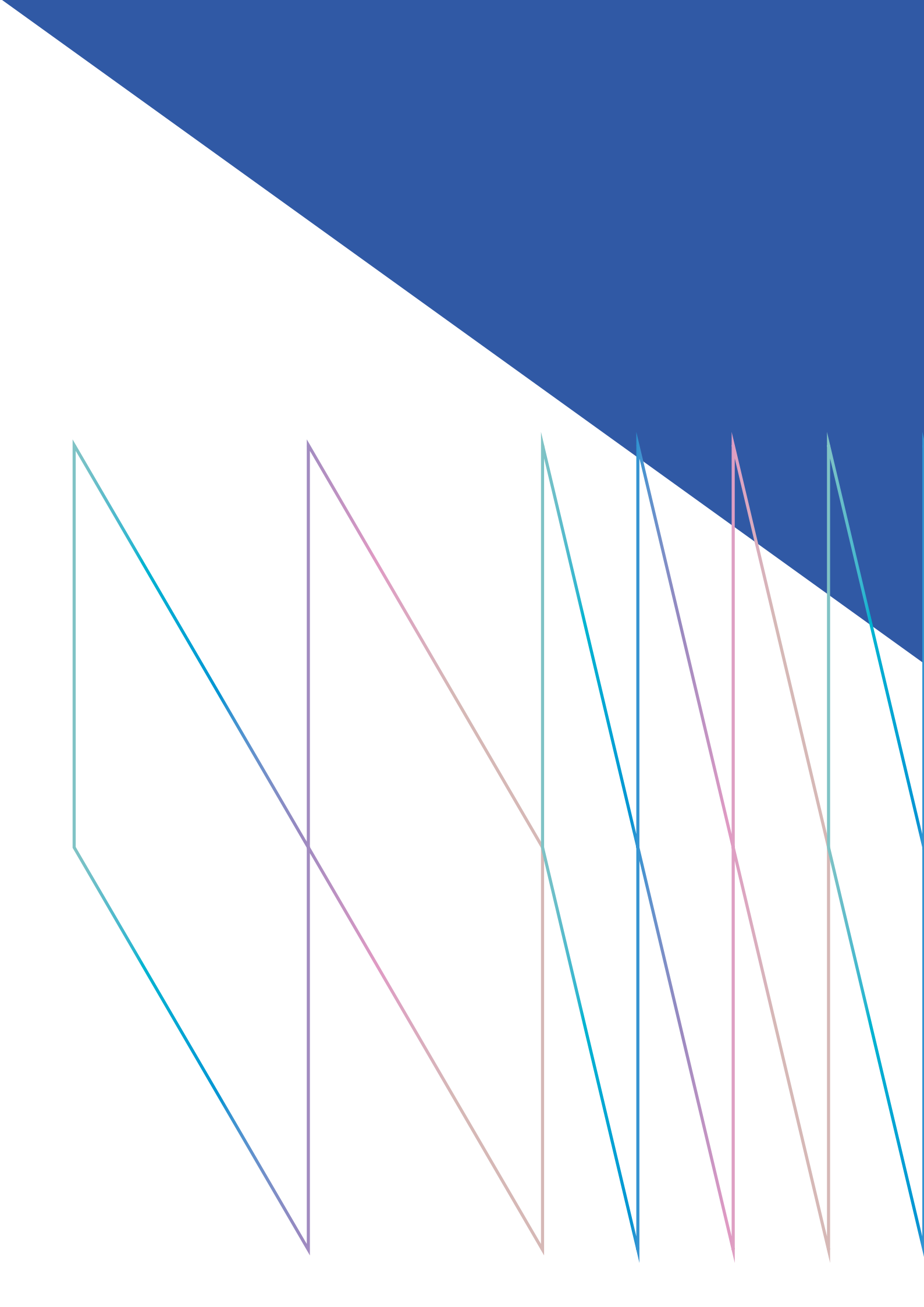
PRODUCT	STRUCTURE	FORMULA	CAS N°	SCALE
DIETHYL-(E)-2-(CYCLOHEXYLAMINO)-VINYLPHOSPHONATE		$C_{12}H_{20}NO_2P$	20061-84-1	P
DIETHYL PHOSPHONO ACETIC ACID		$C_6H_{13}O_5P$	3095-95-2	C
DIETHYL DIETHOXYETHYL PHOSPHONATE		$C_{10}H_{23}O_5P$	7598-61-0	C
DIETHYL PHOSPHONOMETHANOL		$C_5H_{13}O_4P$	3084-40-0	C
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	P
TRIETHYL PHOSPHONOACETATE		$C_8H_{17}O_5P$	867-13-0	P

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		C₆H₅ClOS	34730-20-6	C
3-AMINO-4-METHYL THIOPHENE CARBOXYLIC ACID, METHYL ESTER		C₇H₉NO₂S	85006-31-1	C
5-CHLORO 2-THIOPHENE CARBOXYLIC ACID		C₅H₃ClO₂S	24065-33-6	P
2-THIOPHENE ETHANOL		C₆H₈OS	5402-55-1	C
4-ACETYL THIOANISOLE		C₉H₁₀OS	1778-09-2	L



SEQENS

21 CHEMIN DE LA SAUVEGARDE
CS 33167
69134 ECULLY CEDEX
FRANCE

TEL. +33 04 26 99 18 00
FAX. +33 04 26 99 18 38
connect.cdm@seqens.com

WWW.SEQENS.COM



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