



Intermediates - 1

Product name	CAS number	Application
CHLOROFORMATES		
Benzyl chloroformate (50% in toluene) (BCF 50%)	501-53-1	Pharma and Agro intermediate
Benzyl chloroformate, 95% (BCF 95%)	501-53-1	Pharma and Agro intermediate
1-Chloroethyl chloroformate (1-CECF)	50893-53-3	Ampiroxicam, Cabergoline, Candesartan, Gabapentin
2-Chloroethyl chloroformate (2-CECF)	627-11-2	Pharma and Specialty intermediate
1-Chloro-2-methylpropyl chloroformate (CMPCF)	92600-11-8	Pharma intermediate
2-Ethylhexyl chloroformate (2-EHCF)	24468-13-1	Pharma and Specialty intermediate
n-Hexyl chloroformate (n-HCF)	6092-54-2	Dabigatran
Isobutyl chloroformate (IBCF)	543-27-1	Mosapride, Nelfinavir, Phenethicillin
(-) (1R)-Menthyl chloroformate (R-MnCF)	14602-86-9	Pharma intermediate
4-Nitrobenzyl chloroformate (4-NBCF)	4457-32-3	Panipenem, Meropenem, Biapenem
4-Nitrophenyl chloroformate (4-NPCF)	7693-46-1	Ritonavir, Temozolomide, Efavirenz
n-Pentyl chloroformate (n-PCF)	638-41-5	Capecitabine
Phenyl chloroformate (PCF)	1885-14-9	Pharma and Agro intermediate
2,2,2-Trichloroethyl chloroformate (2,2,2-TCECF)	17341-93-4	Cabergoline, Naltrexone, Nalbuphine
OTHERS		
1,3-Bis (4-Nitrophenethyl) urea (BNPU)	1226500-50-0	Electronic chemical
N,N-Carbonylbis caprolactam (CBC)	19494-73-6	Specialty intermediate
Di-t-butyl dicarbonate (DIBOC)	24424-99-5	Protecting reagent
N,N'-Dicyclohexylcarbodiimide (DCC)	538-75-0	Reagent
Dimethyl carbamoyl chloride (DMCCI)	79-44-7	Pharma and Agro intermediate
2-Ethylhexanoyl chloride (2-EHCl)	760-67-8	Specialty intermediate
Hexaethyl guanidinium chloride (in brine) (HEGCl)	69082-76-4	Specialty intermediate
Isononanoyl chloride (INNCl)	36727-29-4	Specialty intermediate
N-Methyl piperazine carbamoyl chloride HCl (NMPCCI)	55112-42-0	Zopiclone, Eszopiclone, Suriclone
Tetrabutyl urea (TBU)	4559-86-8	Solvent, Reagent
Tetramethyl urea (TMU)	632-22-4	Solvent, Reagent
Note: Atul offers custom synthesis and contract manufacture of Phosgene-related products.		
UNDER DEVELOPMENT		
4-Chlorobutyryl chloride (4-CBC)	4635-59-0	Pharma and Agro intermediate
Neodecanoyl chloride (NDCl)	40292-82-8	Specialty intermediate
Octanoyl chloride (OCl)	111-64-8	Specialty intermediate
Pivaloyl chloride (PCI)	3282-30-2	Specialty intermediate

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Intermediates - 2

Product name	CAS number	Application
AMINO ACID DERIVATIVES		
Boc-L-Proline	15761-39-4	Daclatasvir, Ravidasvir
Boc-L-Valine	13734-41-3	Valacyclovir, Valgancyclovir
CBZ-Valacyclovir	124832-31-1	Valacyclovir intermediate
CBZ-L-Valine	1149-26-4	Valacyclovir, Valgancyclovir
(S)-1-(2-Chloroacetyl)pyrrolidine-2-carbonitrile (CACP)	207557-35-5	Vildagliptin, Anagliptin
N-[(2'-Cyanobiphenyl-4-yl)methyl]-(L)-valine methyl ester HCl (CLVM HCl)	482577-59-3	Valsartan
(R)-2-Methyl -CBS-oxazaborolidine (R-CBS)	112022-83-0	Ezetimibe, Treprostinil, Aprepitant
Moc-L-Tert-Leucine	162537-11-3	Atazanavir, Pharma intermediate
Moc-L-Valine	74761-42-5	Daclatasvir, Ledipasvir
N-[(4-Nitrophenyl)-oxy]carbonyl-L-valine methyl ester (NLVM)	162537-10-2	Ritonavir, Cobicistat
L-Valine methyl ester HCl (L-VME HCl)	6306-52-1	Valsartan, Ritonavir, Cobicistat
CARBONATES		
Bis-(4-Nitrophenyl) carbonate (BNPC)	5070-13-3	Ritonavir, Rivastigmine, Cobicistat
1-Chloroethyl cyclohexyl carbonate (1-CECC)	99464-83-2	Cefotiam, Candesartan
1-Chloroethyl isopropyl carbonate (1-CEIC)	98298-66-9	Cefpodoxime
1-Chloroethyl-4-nitrophenyl carbonate (1-CENPC)	101623-69-2	Gabapentin
Chloromethyl isopropyl carbonate (CMIC)	35180-01-9	Tenofovir
(5-Thiazolyl)methyl-(4-nitrophenyl) carbonate (NPTC)	144163-97-3	Ritonavir, Cobicistat
1-Chloroethyl methyl carbonate (1-CEMC)	80196-03-8	Pharma and Agro intermediates
OTHERS		
1-[2-Amino-1-(4-methoxyphenyl)ethyl] cyclohexanol HCl acetate (VENLA-II)	130198-05-9 839705-03-2	Venlafaxine, Desvenlafaxine
2-(2-Aminothiazol-4-yl) acetic acid HCl (ATAA. HCl)	66659-20-9	Mirabegron
tert-Butoxycarbonyl hydrazide (Boc-hydrazide)	870-46-2	Atazanavir, Anastrozole, Pharma intermediate
1-[Cyano-(4-methoxyphenyl)methyl] cyclohexanol (VENLA-I)	93413-76-4	Venlafaxine, Desvenlafaxine
1-2,4-Difluorophenyl-1H-1,2,4-triazole-1-yl-ethanone (DFTA)	86404-63-9	Fluconazole, Voriconazole
4-Ethyl-2,3-dioxo piperazine (EDP)	59702-31-7	Piperacillin, Cefoperazone
(2R)-2-[(4-Ethyl-2,3-dioxopiperazinyl) carbonylamino]-2-phenylacetic acid (EPCP)	63422-71-9	Piperacillin
5-Hydroxymethyl thiazole (5-HMT)	38585-74-9	Ritonavir, Cobicistat
2-(4-Nitrophenyl)ethanamine HCl (NEAH)	29968-78-3	Mirabegron
Thiophene-2-carboxaldehyde (2-TC)	98-03-3	Pharma intermediate
Note: Please contact us for specific custom synthesis, exclusive manufacturing needs, or for CBZ, BOC, MOC and FMOC derivatives of amino acids.		
UNDER DEVELOPMENT		
(2R)-2-[(4-Ethyl-2,3-dioxopiperazinyl)carbonylamino]-2-(4-hydroxyphenyl)acetic acid (OH-EPCP)	62893-24-7	Cefoperazone
N-[2-Isopropylthiazol-4-ylmethyl(methyl)carbamoyl]-L-valine (ITVM)	154212-61-0	Ritonavir
2-[[4-(2-Pyridinyl)phenyl]methylene]-hydrazinecarboxylic acid-1, 1-dimethylethyl ester (BPBH)	198904-84-6	Atazanavir
(2S,3S,5S)-2-Amino-3-hydroxy-5-(tert-butyloxy carbonyl) amino-1, 6-diphenyl hemisuccinic acid salt (BDH salt)	183388-64-9	Ritonavir
t-Butyl{(1s)-1-[(2R-oxiran-2-yl)-2-phenylethyl]carbamate (R-OPC)	98760-08-8	Atazanavir
(Z)-2-Methoxyimino-2-furanacetic acid ammonium salt (SMIA)	97148-39-5	Cefuroxime
(S)-2-Benzothiazolyl (Z)-2-(2-aminothiazole-4-yl)-2 methoxycarbonylmethoxy iminothioacetate (MICA ester)	246035-38-1	Cefixime
Benzothiazol-2-yl (Z)-2-methoxyimino-2-(2-aminothiazole-4-yl)thioacetate (MAEM)	84994-24-1	Ceftriaxone, Cefotaxime
Guanine 2-amino-9H-purin-6(1H)-one	73-40-5	Acyclovir, Valacyclovir
10-Methoxy Iminostilbene 10-Methoxy-5H-dibenz[b,f]azepine (10-MIS)	4698-11-7	Oxcarbazepine
Iminodibenzyl carbonyl chloride (IDBCl)	33948-19-5	Oxcarbazepine

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