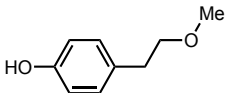
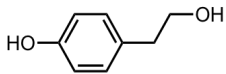
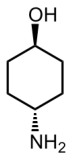
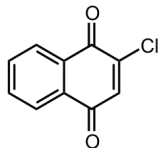


PHARMACEUTICAL ADVANCED INTERMEDIATES

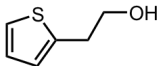
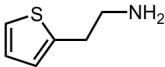
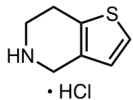
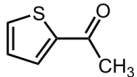


#	CAS	Code	Proper Name	Structure	End API Application	Stage (Annual Capacity)
1	56718-71-9	PHME or MEP	4-(2-methoxyethyl)phenol		Metoprolol	450 MT
2	501-94-0	PHEP	4-(2-hydroxyethyl)phenol		Betaxolol Tyrosol	450 MT
3	27489-62-9	T4AC	<i>trans</i> -4-aminocyclohexanol		Ambroxol Dembrexine Tanzisertib Volasertib	Pilot Plant (Development Ongoing)
4	1010-60-2	2-CNQ	2-chloro-1,4-naphthoquinone		Atovaquone	Pilot Plant (Ready for Production)

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PHARMACEUTICAL ADVANCED INTERMEDIATES



#	CAS	Code	Proper Name	Structure	End API Application	Stage (Annual Capacity)
5	5402-55-1	T2E	thiophene-2-ethanol			450 MT
6	30433-91-1	T2EA	thiophene-2-ethyl amine		Ticlopidine, Clopidogrel	Pilot Plant (Ready for Production)
7	28783-41-7	T32P	4,5,6,7-tetrahydrothieno[3,2-c]pyridine hydrochloride			Pilot Plant (Ready for Production)
8	88-15-3	2AT	2-acetylthiophene		Duloxetine	450 MT

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PHARMACEUTICAL ADVANCED INTERMEDIATES


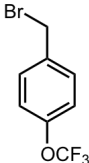
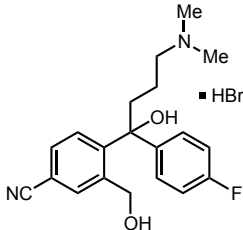
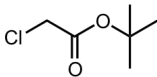


#	CAS	Code	Proper Name	Structure	End API Application	Stage (Annual Capacity)
9	23323-37-7	NODG	<i>N</i> -octy-D-glucamine		Resolving Agent for Naproxen	450 MT
10	6284-40-8	NMDG	<i>N</i> -methyl-D-glucamine		Meglumine, Gadopentetate, Fosaprepitant	300 MT
11	14216-22-9	NEDG	<i>N</i> -ethyl-D-glucamine		Resolving Agent	Pilot Plant (Ready for Production)
12	5854-78-4	H-Thr(tBu)-OtBu	<i>O</i> - <i>tert</i> -butyl-L-threonine <i>tert</i> -butyl ester		Insulin APIs	As per requirement
13	39546-32-2	4-PC	4-piperidinecarboxamide		Pipamazine Piboserod Ibodutant Metopimazine	100 MT

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PHARMACEUTICAL ADVANCED INTERMEDIATES



#	CAS	Code	Proper Name	Structure	End API Application	Stage (Annual Capacity)
14	110-87-2	DHP	3,4-dihydro-2H-pyran		Numerous	300 MT
15	50824-05-0	4-TFMBB	4-trifluoromethoxybenzyl bromide		Under development API	As per requirement
16	103146-26-5	Citadiol	benzonitrile, 4-[4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)-, hydrobromide		Citalopram	Pilot Plant (Ready for Production)
17	107-59-5	TBCA	<i>tert</i> -butylchloroacetate		Aceclofenac	450 MT

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PHARMACEUTICAL ADVANCED INTERMEDIATES



#	CAS	Code	Proper Name	Structure	End API Application	Stage (Annual Capacity)
18	107-07-3	2CE	2-chloroethanol		Cetirizine Benzothonium <i>Numerous</i>	300 MT
19	628-89-7	2-CEE	2-(2-chloroethoxy)ethanol		Quetiapine, Hydroxyzine, Etofenamate	300 MT
20	13349-82-1	HEEP	1-[2-(2-hydroxyethoxy)-ethyl]piperazine		Quetiapine	300 MT
21	17229-14-0	CEAE	2-(2-chloroethoxy)acetic acid ethyl ester		Cetirizine Levocetirizine	Pilot Plant (Ready for Production)
22	36961-64-5	CEA	2-(2-chloroethoxy)acetamide			

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PHARMACEUTICAL ADVANCED INTERMEDIATES



#	CAS	Code	Proper Name	Structure	End API Application	Stage (Annual Capacity)
23	114772-53-1	OTBN	2-cyano-4'-methylbiphenyl		Sartan Series	Pilot Plant (Commercial Launch : October 2018)
24	114772-54-2	Br-OTBN	2-cyano-4'-(bromomethyl)biphenyl			
25	114772-38-2	Br-OTBN-ester	4'-bromomethyl-1,1'-biphenyl-2-carboxylic acid methyl ester		Telmisartan	
26	482577-59-3	CMVEH	N-[(2'-cyano-[1,1'-biphenyl]-4-yl)methyl]-L-valine methyl ester, monohydrochloride		Valsartan	Pilot Plant Validation
27	139481-44-0	MCMEBC	Methyl 1-[(2'-cyanobiphenyl-4-yl)methyl]-2-ethoxybenzimidazole-7-carboxylate		Candesartan	

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