

KarpsChem

Deliver... Excellence...

IMPURITY REFERENCE

IP IMPURITIES

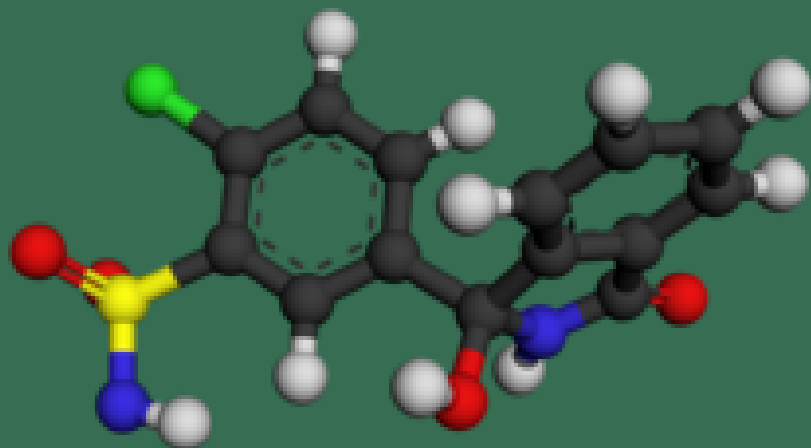
EP IMPURITIES

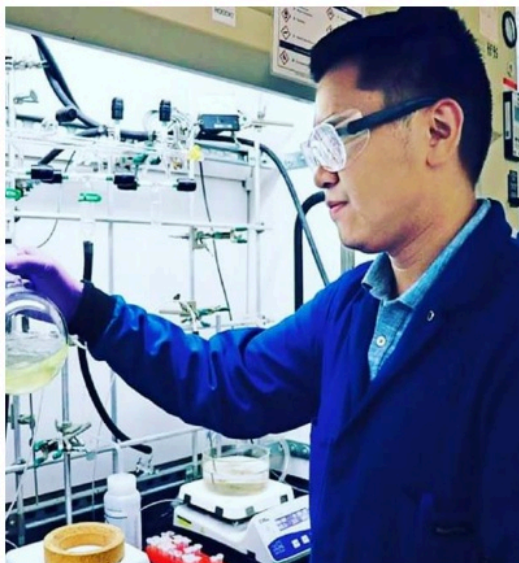
USP IMPURITIES

BP IMPURITIES

PHARMACEUTICAL IMPURITIES

MANUFACTURER





Deliver excellence...

Why should you chose KarpsChem for Impurity standard manufacturing?

Clients can get all benefits they deserved,

- Free data will be sent to the client on every shipment.
- We synthesized products in cost effective ways and thus our products are affordable to everyone.
- We provide best communication facilities to contact their clients 24X7.
- We delivered products within the stipulated time period.

Who we are?

KarpsChem is an ISO certified India based company doing business in manufacturing and supply of pharmacopoeia impurities, process impurities, isolation and identification of unknown impurities. KarpsChem team has expertise of synthesis for undertaking CRAMs and CRO projects from Pharmaceutical, Agriculture and Veterinary industries. Variety of impurities like Genotoxic, Neurotoxic impurities required for agencies like USFDA, MHRDA etc., are available.

Contact Us

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KARPSCHEM

w-67, Phase II, Dombivli (E)
MIDC Thane-421204
Maharashtra INDIA



KARPSCHEM

*Leading Pharmaceutical
Impurity manufacturer*

Drug Substances

Drug Substance Base

Drug Impurity Standards

Isotope Labelled Compounds

Speciality Chemicals

Drug Glucuronides

Drug Intermediates

Drug Metabolites

Pharmacopeial Standards

Polymorphic Impurities

custom synthesis molecules

KarpsChem expertise all.

Our Vision

To become a leading pharma company and a preferred partner for the global pharma industry for Reference materials, Research chemicals and R&D services.

Our Mission:

We strive to provide a cost-effective and time-bound research solutions in the area of custom synthesis, formulation development and analytical development.

“We Deliver What We commit”

Our Facility:

- Facilities are available for the synthesis of complex organic molecules.
- Facilities are available for high pressure reaction and hydrogenation reaction.
- Facilities are available for dry reaction with temperature range 0°C to -80°C or below.
- Facilities are available for the isolation and identification of unknown impurities.



Pharmaceutical impurity and custom synthesis deliver by click of fingertip

Storage Facility:

Tailor-made storage facilities are available in KarpsChem i.e. for maintenance of integrity of synthetic material storage for long time storage

Packing and dispatch Facility:

Sensitive products are packed in specially design vial under flow of nitrogen and ship in 0°C to -80°C as per requirement.

Documentation Facility:

All required analytical data as per standard guideline will generate and ship with compound and soft copy by mail.

All important analytical data as achieves facility available in KarpsChem for clients in accordance to standard guideline.



KARPSCHEM PRODUCT LIST 2019

COMPOUND NAME	CAS NO
ACECLOFENAC	
ACECLOFENAC IMPURITY A	15307-86-5 (FREE ACID); 15307-79-6
ACECLOFENAC IMPURITY B	15307-78-5
ACECLOFENAC IMPURITY I	15362-40-0
ACECLOFENAC IMPURITY E	139272-67-6
ACECLOFENAC IMPURITY D	139272-66-5
ACECLOFENAC IMPURITY F	100499-89-6
ACECLOFENAC IMPURITY G	1215709-75-3
ACECLOFENAC IMPURITY C	15307-77-4
AZITHROMYCIN	
AZITHROMYCIN IMPURITY E	612069-27-9
AZITHROMYCIN IMPURITY F	612069-28-0
AZITHROMYCIN IMPURITY I	172617-84-4
AZITHROMYCIN IMPURITY L	90503-06-3
HYDROXY AZITHROMYCIN	756825-20-4
AZITHROMYCIN IMPURITY M	765927-71-7
AZITHROMYCIN IMPURITY N	612069-25-7
ALBENDAZOLE	
ALBENDAZOLE IMPURITY A	80983-36-4
ALBENDAZOLE IMPURITY B	54029-12-8
ALBENDAZOLE IMPURITY C	75184-71-3
ALBENDAZOLE IMPURITY D	80983-34-2
ALBENDAZOLE IMPURITY E	10605-21-7
ALBENDAZOLE IMPURITY F	80983-45-5



KARPCHEM PRODUCT LIST 2019

ALBENDAZOLE IMPURITY G	139751-05-6
ALBENDAZOLE IMPURITY 10	
ACEBUTALOL	
ACEBUTALOL IMPURITY C	40188-45-2
ACEBUTALOL IMPURITY J	57898-79-0
AZELASTINE	
AZELASTINE IMPURITY A	613-94-5
ATORVASTATIN	
ATORVASTATIN IMPURITY H	125995-03-1
ATORVASTATIN RELATED COMPOUND D	148146-51-4
ATORVASTATIN RELATED COMPOUND C	693793-53-2(CA SALT); 693794-20-6 (FB)
ATORVASTATIN AMIDE IMPURITY	
ATORVASTATIN METHYL ESTER	
ATORVASTATIN TERT-BUTYL ESTER	
ATORVASTATIN 3-DEOXYHEPT-2-ENOIC ACID	
ATORVASTATIN PYRROLIDONE ANALOG (USP)	148217-40-7
ATORVASTATIN FX1 IMPURITY	1315629-79-8
ASPIRIN	
ASPIRIN IMPURITY E	552-94-3
ASPIRIN IMPURITY F	1466-82-6
AMOXICILLIN	
AMOXICILLIN IMPURITY A	551-16-6
ARIPIRAZOLE	
ARIPIRAZOLE RELATED COMPOUND F	573691-09-5



KARPCHEM PRODUCT LIST 2019

ARIPIRAZOLE-N,N'-DIOXIDE	573691-13-1
ARIPIRAZOLE IMPURITY A	22246-18-0
ACETAZOLAMIDE	
ACETAZOLAMIDE IMPURITY A	60320-32-3
ACETAZOLAMIDE IMPURITY B	NA
ACETAZOLAMIDE IMPURITY E	827026-60-8 (FREE ACID)
AMLODIPINE	
AMLODIPINE IMPURITY A	88150-62-3
AMLODIPINE IMPURITY B	721958-72-1
AMLODIPINE IMPURITY D	113994-41-5
AMLODIPINE IMPURITY G	43067-01-2
AMLODIPINE IMPURITY H	318465-73-5
AMLODIPINE IMPURITY 1	NA
APREMILAST	
(S)-1-(3-ETHOXY-4-METHOXYPHENYL)-2-(METHYLSULFONYL)ETHANAMINE	608141-42-0
AZILSARTAN	
AZILSARTAN ACID IMPURITY	NA
AZILSARTAN BIS IMPURITY	NA
AZILSARTAN DES-ETHYL IMPURITY	NA
AZILSARTAN ETHYL ESTER IMPURITY	NA
AZILSARTAN IMPURITY 1	NA
AZILSARTAN IMPURITY 2	NA
AZILSARTAN IMPURITY 3	NA
AZILSARTAN IMPURITY A	147404-76-0
AZILSARTAN IMPURITY B	1696392-11-6



KARPChem PRODUCT LIST 2019

AZILSARTAN IMPURITY C	1397836-49-5
AZILSARTAN IMPURITY D	1821386-21-3
AZILSARTAN IMPURITY E	136285-69-3
AZILSARTAN IMPURITY F	1863930-34-0
AZILSARTAN IMPURITY G	NA
AZILSARTAN IMPURITY H	NA
AZILSARTAN IMPURITY I	139481-33-7
AZILSARTAN METHYL ESTER IMPURITY	NA
ALLOPURINOL	
ALLOPURINOL ALLOPURINOL IMPURITY A	NA
ALLOPURINOL ALLOPURINOL IMPURITY B	NA
ALLOPURINOL ALLOPURINOL IMPURITY C	NA
ALLOPURINOL ALLOPURINOL IMPURITY D	NA
ALLOPURINOL ALLOPURINOL IMPURITY E	NA
2-(DECYLOXY)-5-NITROPHENOL	NA
1-(2-NITRO-5-(PHENYLTHIO)PHENYLTHIO)BENZENE	62049-82-5
APIXABAN	
4,5,6,7-TETRAHYDRO-1-(4-METHOXYPHENYL)-7-OXO-6-(4-(2-OXOPIPERIDIN-1-YL)PHENYL)-1H-PYRAZOLO[3,4-C]PYRIDINE-3-CARBOXAMIDE	503612-47-3
APIXABAN IMPURITY 2 (BMS-724914-01)	NA
APIXABAN IMPURITY 29	NA
APIXABAN IMPURITY 14	NA
APIXABAN IMPURITY 15	NA
APIXABAN IMPURITY 17	NA
APIXABAN IMPURITY 18	NA
APIXABAN IMPURITY 19	NA
APIXABAN IMPURITY 20	NA
APIXABAN IMPURITY 22	405872-78-8
5-BROMOPENTANOIC ACID ETHYL ESTER	14660-52-7
ATENOLOL	



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ATENOLOL IMPURITY A	17194-82-0
ATENOLOL IMPURITY B	61698-76-8
ATENOLOL IMPURITY C	29122-69-8
ATENOLOL IMPURITY D	115538-83-5
ATENOLOL IMPURITY J	81346-71-6
BUMETANIDE	
BUMETANIDE(EP IMPURITY A)	28328-53-2
BUMETANIDE(EP IMPURITY B)	28328-54-3
BUMETANIDE(EP IMPURITY C)	32643-00-8
BUMETANIDE(EP IMPURITY D)	153012-65-8
METHYL 3-NITRO-4-PHENOXY-5-SULFAMOYL BENZOATE. BUMETANIDE(IMPURITY -5)	57939-04-5
BACLOFEN	
BACOFEN IMPURITY 1	35271-74-0
Chlorophenylglutaric acid anhydride	53911-68-5
4-(4-Chlorophenyl)-2,6-piperidinedione	84803-46-3
BECLOMETHASONE	
BECLOMETHASONE IMPURITY R	NA
BECLOMETHASONE IMPURITY G	1186048-33-8
BECLOMETHASONE IMPURITY V	205105-83-5
BETAXOLOL	
BETAXOLO HCL IMPURITY A (HCL)	464877-45-0
BETAXOLO HCL IMPURITY B	62572-94-5
BUPROPION	
BUPROPION-2-AMINO IMPURITY	119802-69-6



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BENDROFLUMETHIAZIDE	
BENDROFLUMETHIAZIDE IMPURITY A	654-62-6
BUSPIRONE	
BUSPIN; 8-[4-[4-(2-PYRIMIDINYL)-1-PIPERAZINYL]BUTYL]-8-AZASPIRO[4.5]DECANE-7,9-DIONE	36505-84-7
BREXPIRAZOLE	
7-[4-(4-(BENZO[B]THIEN-4-YL)-PIPERAZIN-1-YL)BUTOXY]-1H-QUINOLIN-2-ONE; OPC 34712	913611-97-9
BUPIVACAINE	
BUPIVACAINE EP IMPURITY A	39627-98-0
BUPIVACAINE EP IMPURITY B	15883-20-2
BUPIVACAINE EP IMPURITY C	1797894-80-4
BUPIVACAINE EP IMPURITY D	1037184-07-8
BUPIVACAINE EP IMPURITY E	1330172-81-0
BUPIVACAINE EP IMPURITY F HCL (ROPIVACAINE EP IMPURITY H HCL)	21436-98-6
BUSPIRONE	
BUSPIN; 8-[4-[4-(2-PYRIMIDINYL)-1-PIPERAZINYL]BUTYL]-8-AZASPIRO[4.5]DECANE-7,9-DIONE	36505-84-7
BREXPIRAZOLE	
7-[4-(4-(BENZO[B]THIEN-4-YL)-PIPERAZIN-1-YL)BUTOXY]-1H-QUINOLIN-2-ONE; OPC 34712	913611-97-9
CHLORTHALIDONE	77-36-1
CHLORTHALIDONE RELATED COMPOUND A	5270-74-6



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PER USP), IMPURITYB (EP)	
CHLORTHALIDONE IMPURITY J	956-95-3
CHLORTHALIDONE IMPURITY G	16289-13-7
CHLORTHALIDONE IMPURITY A	NA
CHLORTHALIDONE IMPURITY D	1369995-36-7
CHLORTHALIDONE IMPURITY E	82875-49-8
CHLORTHALIDONE IMPURITY H	
CLARITHROMYCIN	81103-11-9
CAPACITABINE	
CAPACITABINE RELATED COMPOUND C	921769-65-5
COLCHICINE	
COLCHICINE IMPURITY E	7336-33-6
CLOMPIRAMINE	
CLOMPRIRAMINE IMPURITY G	1425793-87-8
CLOZAPINE	
CLOZAPINE IMPURITY D	65514-71-8
CLOZAPINE-N-OXIDE	34233-69-7
CARVEDILOL	
CARVEDILOL IMPURTY A	1076199-79-5
CITALOPRAM	
CITALOPRAM IMPURITY D	1188264-72-3
CITALOPRAM N-OXIDE (RC-E)	63284-72-0
CITALOPRAM IMPURITY C	372941-54-3
CITALOPRAM IMPURITY E	NA
CITALOPRAM IMPURITY G	1329745-98-3 (BASE)
CITALOPRAM IMPURITY A	64372-56-1
CITALOPRAM IMPURITY B	411221-53-9



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CITALOPRAM IMPURITY F	64169-39-7 (BASE) ; 479065-02-6 (HBR SALT)
CITALOPRAM R-ISOMER OXALATE	219861-53-7
CLOPIDOGREL	
CLOPIDOGREL IMPURITY A	144750-42-5
CLOPIDOGREL IMPURITY B	144750-52-7
CLOPIDOGREL IMPURITY C	120202-71-3
CLOSANTEL	
CLOSANTEL IMPURITY A	133-91-5
CLOSANTEL IMPURITY B	NA
CLOSANTEL IMPURITY C	NA
CLOSANTEL IMPURITY D	NA
CLOSANTEL IMPURITY G	NA
CLOSANTEL IMPURITY H	NA
CLOBAZAM	
Clobazam EP Impurity A	22316-55-8
Clobazam EP Impurity B	22316-24-1
Clobazam EP Impurity C	22316-16-1
Clobazam EP Impurity D	NA
1-(4-Aminobenzyl)1,2,4triazole	119192-10-8
CELECOXIB	
CELECOXIB EP IMPURITY A/ RELATED COMPOUND A	170570-01-1
CELECOXIB EP IMPURITY / RELATED COMPOUND B	331943-04-5
CELECOXIB IMPURITY 2	948293-46-7
CELECOXIB HYDRAZINE IMPURITY	17852-52-7
CELECOXIB RELATED COMPOUND 4	720-94-5
CELECOXIB COMPOUND; METHYL 3-METHYLPHENYL KETONE; METHYL M-TOLYL KETONE; NSC 46632; M-METHYLACETOPHENONE	585-74-0



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CELECOXIB COMPOUND; 1-(4-METHYLPHENYL)-1-ETHANONE; 1-(4-METHYLPHENYL)ETHANONE; 1-(4-TOLYL)ETHANONE; 1-ACETYL-4-METHYLBENZENE;	122-00-9
CETIRIZINE	
CETIRIZINE -N-OXIDE	1076199-80-8
CETIRIZINE IMPURITY A	303-26-4
Cetirizine Dihydrochloride	83881-51-0
Deschloro benzhydrel piperazine CET	
1-Benzhydrylpiperazine	841-77-0
3-Chloro BHP	NA
4-Chlorobenzhydrol	119-56-2
3-Chlorobenzophenone	1016-78-0
Ethoxy CET	68-88-2
Cetirizine Impurity 8	NA
Cetirizine Methyl ester	NA
Cetirizine Related Compound D	NA
1-((R)-(4-chlorophenyl)(phenyl)methyl)piperazine	300543-56-0
CANDESARTAN	
CANDESARTAN IMPURITY A	139481-58-6
DICLOFENAC	
DICLOFENAC IMPURITY A	15362-40-0
DICLOFENAC ISOPROPYL IMPURITY	66370-79-4
DICLOFENAC METHYL ESTER IMPURITY	15307-78-5
DICLOFENAC IMPURITY F	560075-65-2
DICLOFENAC ETHYL ESTER	15307-77-4
DOMPERIDONE	
DOMPERIDONE IMPURITY A	53786-28-0
DOMPERIDONE IMPURITY B	1346598-11-5



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DESVENLAFAXINE	
DESVENLAFAXINE-N-OXIDE	NA
DROTAVERINE	
DROTAVERINE-N-OXIDE	NA
DESLORATIDINE	
DESLORATIDINE-N-OXIDE	169253-26-3
DESLORATADINE IMPURITY E	79794-75-5
DESLORATADINE EP IMPURITY A	298220-99-2
DICLAZURIL	
DICLAZURIL IMPURITY-B	112206-71-0
DICLAZURIL IMPURITY D	133648-81-4
DICLAZURIL IMPURITY -A	862243-46-7
DICLAZURIL IMPURITY-C	1797132-12-7
DICLAZURIL IMPURITY-F	133648-80-3
DRONEDERONE	
N-DESBUTYL DRONEDERONE	197431-02-0
DRONEDARONE HYDROCHLORIDE IMPURITY A	
DEXTROMETHORPHAN	
DEXTROMETHORPHAN	125-71-3
DEXTROMETHORPHAN N-OXIDE HYDROCHLORIDE	1177419-85-0
DEXTROMETHORPHAN IMPURITY A	1531-25-5
DEXTROMETHORPHAN IMPURITY B	125-73-5
DABIGATRAN	
DBG SM 1	103041-38-9
DBG SM 2	41263-74-5



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DABIGATRAN IMPURITY 8	429659-01-8
DABIGATRAN IMPURITY 9	NA
DABIGATRAN 3-AMINOBENZOYL IMPURITY	NA
DABIGATRAN IMPURITY 2 (DABRC-02)	42288-26-6
DABIGATRAN IMPURITY 9	NA
DABIGATRAN ACID CYANO ANALOG	212322-77-5
DABIGATRAN IMPURITY 3 (DABRC-03)	211915-84-3
DABIGATRAN IMPURITY 1 (DABRC-01)	429658-95-7
DABIGATRAN ISOPROPYL ESTER IMPURITY	1610758-17-2
DABIGATRAN JPBA IMPURITY 5	1408238-37-8
DABIGATRAN METHYLAMINO IMPURITY	212322-56-0
DABIGATRAN (ACID)	211914-51-1
DABIGATRAN IMPURITY 7 (DABRC-07)	1408238-40-3
DABIGATRAN IMPURITY 4 (DABRC-04)	212321-78-3
DESETHYL DABIGATRAN ETEXILATE CARBOXAMIDE	1580491-16-2
DULOXETINE	
Duloxetine EP Impurity B	116539-55-0
Duloxetine EP Impurity D	90-15-3
Duloxetine EP Impurity G	321-38-0
Duloxetine Impurity 4(Racemic)	NA
Duloxetine salt	645411-16-1
DIAZEPAM	
Diazepam EP Impurity B	6021-21-2
Diazepam EP Impurity E	20927-53-1
DIAZEPAM - IMPURITY A	1088-11-5
DIAZEPAM - IMPURITY D	1022-13-5



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DIAZEPAM - IN HOUSE IMPURITY	784-41-8
DONEPEZIL	120014-06-4
DONEPEZIL RELATED COMPOUND A	145546-80-1
Deoxydonepezil	844694-84-4
Desbenzyl donepezil	120013-39-0
Donepezil N-Oxide	120013-84-5
Donepezil pyridine analog (DPMI)	4803-57-0
Donepezil Aldehyde Impurity	22065-85-6
Donepezil Didesmethyl Impurity	220170-71-8
Donepezil Pyridine N-Oxide	896134-07-9
Donepezil Impurity (5,6-Dimethoxy-1-Indanone)	2107-69-9
Donepezil Pyridine Dehydro Impurity	4803-74-1
DORZOLAMIDE	
DORZOLAMIDE CIS IMPURITY	120279-37-0
(4S,6S)-4-(ETHYLAMINO)-6-METHYL-3A,5,6,7A-TETRAHYDRO-4H-THIENO[2,3-B]	130693-82-2;
THIOPYRAN-2-SULFONAMIDE 7,7-DIOXIDE	120279-96-1
ETHACRYNIC ACID	
ETHACRYNIC ACID 1	NA
ETHACRYNIC ACID 2	1984-59-4
ETHACRYNIC ACID 3	NA
ETHACRYNIC ACID 4	NA
ESTRADIOL	
ETHINYL ESTRADIOL IMPURITY D (EP)	50-28-2
ESTRADIOL RELATED COMPOUND B, 6,7-DEHYDRO ESTRADIOL,	7291-41-0



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FAMOTIDINE	
	109467-08-5
FAMOTIDINE IMPURITY B	(DIMALEATE) 89268-62-2
FAMOTIDINE IMPURITY E	129083-44-9
FOSINOPRIL	
FOSINOPRILAT	95399-71-6
FINOFIBRATE	
FINOFIBRATE IMPURITY A	42019-78-3
FINOFIBRATE IMPURITY B	42017-89-0
FINOFIBRATE IMPURITY G	217636-48-1
FINOFIBRATE IMPURITY C	217636-47-0
FINOFIBRATE IMPURITY F	154356-96-4
FINASTERIDE	
FINASTERIDE IMPURITY A	98319-24-5
FINASTERIDE IMPURITY B	103335-41-7
FLECANIDE	
FLECANIDE IMPURITY EP C	152171-74-9
HYDROXY-2-PHENYLPROPYL CARBAMATE	25451-53-0
FELBAMATE	
CARBAMIC ACID PHENETHYL ESTER; NSC 31196; PHENETHYL CARBAMATE; USP FELBAMATE RELATED COMPOUND B;	6326-19-8
2-PHENYL-1,3-PROPANEDIOL	1570-95-2
FELBAMATE DIMER IMPURITY ; FELBAMATE METABOLITE	25451-53-0
FELBAMATE RELATED COMPOUND A	25451-53-0



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2-HYDROXY FELBAMATE	109482-32-8
PARA-HYDROXY FELBAMATE	109482-28-2
HYDROXY-2-PHENYLPROPYL CARBAMATE	25451-53-0
Felbamate Dimer Impurity	
Fulvestrant	
Fulvestrant Int-TBDMS chain	NA
Fulvestrant Side chain impurity	148757-89-5
GALANTHAMINE	
GALANTHAMINE IMPURITY B	1668-85-5
GALANTHAMINE IMPURITY D	664995-65-7
O-DESMETHYL GALANTHAMINE	60755-80-8
GABAPENTINE	
GABAPENTINE IMPURITY A	64744-50-9
GLIMIPRIDE	
GLIMIPRIDE IMPURITY B	119018-29-0
GLIMIPRIDE IMPURITY A	684286-46-2
GLIMIPRIDE IMPURITY C	119018-30-3
GLIMIPRIDE IMPURITY D	791104-62-6
HYDROXYZINE	
HYDROXYZINE RELATED COMPOUND A	303-26-4
HALOPERIDOL	
4-[4-(4-CHLOROPHENYL)-4-HYDROXY-1-PIPERIDINYL]-1-(4-FLUOROPHENYL)-1-BUTANONE; R-1625; ALOPERIDIN; BIOPERIDOLO; BROTOPON; DOZIC; EINALON S	52-86-8
HALOPERIDOL DESCHLORO IMPURITY A	12/4/3109
HALOPERIDOL DESCHLORO IMPURITY H	148406-51-3
HALOPERIDOL DESCHLORO IMPURITY G	52669-92-8



KARPChem PRODUCT LIST 2019

HALOPERIDOL DIMER IMPURITY	NA
HALOPERIDOL DESCHLORO IMPURITY B	1391052-53-1
IRBESARTAN	
IRBESARTAN IMPURITY A	748812-53-5
IBUPROFEN	
IBUPROFEN IMPURITY B	3585-49-7
IBUPROFEN IMPURITY C	59512-17-3
IBUPROFEN IMPURITY D	938-94-3
IBUPROFEN IMPURITY E	38861-78-8
IBUPROFEN IMPURITY L	53949-53-4
IBUPROFEN IMPURITY M	60057-62-7
IBUPROFEN IMPURITY N	3585-52-2
IBUPROFEN IMPURITY J	65813-55-0
IBUPROFEN IMPURITY P	36039-36-8
IBUPROFEN IMPURITY F	65322-85-2
KETOPROFEN	
KETOPROFEN IMPURITY A.	66067-44-5
KETOPROFEN IMPURITY C.	68432-95-1
KETOCONAZOLE	
Ketoconazole (Std)	65277-42-1
Ketoconazole EP Impurity C	83374-59-8
Ketoconazole EP Impurity E	134071-44-6
1-Acetyl-4-(4-hydroxyphenyl)piperazine	67914-60-7
Ketoconazole Trans Tosylate	
LURASIDONE	
LURASIDONE MONO OXIDE(DP-4)	NA
LURASIDONE DI OXIDE(DP-5)	NA
LEFLUNOMIDE	
4-ISOXAZOLECARBOXAMIDE,5-METHYL-N-(2-(TRIFLUOROMETHYL)PHENYL), LEFLUNOMIDE IMPURITY F [EP]	1403564-06-6
METHYLISOXAZOLE-4-(3-TRIFLUOROMETHYL)CARBOXANILIDE; LEFLUNOMIDE 3-ISOMER	61643-23-0



KARPCHEM PRODUCT LIST 2019

3-METHYLISOXAZOLE-4-CARBOXYLIC ACID	17153-20-7
5-DESMETHYL-3-METHYL LEFLUNOMIDE	208401-20-1
4-AMINO-N-[4-(TRIFLUOROMETHYL)PHENYL]BENZAMIDE	1011244-72-6
N-(4-TRIFLUOROMETHYLPHENYL)CYANOACETAMIDE; 2-CYANO-N-[4-(TRIFLUOROMETHYL)PHENYL]-ACETAMIDE	24522-30-3
LABETALOL	
LABETALOL IMPURITY A	NA
LABETALOL IMPURITY B	1391051-99-2
LABETALOL IMPURITY B (FREE BASE)	802620-01-5
LABETALOL IMPURITY C	NA
LABETALOL IMPURITY G	NA
LOSARTAN	
2-BUTYL-4-CHLORO-1-[[2'-(1H-TETRAZOL-5-YL)[1,1'-BIPHENYL]-4-YL]METHYL]-1H-IMIDAZOLE-5-METHANOL	114798-26-4
LOSARTAN IMPURITY K	NA
LOSARTAN EP IMPURITY D; LOSARTAN USP RELATED COMPOUND A	83857-96-9
5-CHLORO-2-BUTYL-IMIDAZOLE-4-METHANOL; LOSARTAN EP IMPURITY A	79047-41-9
LANSOPRAZOLE	
LANSOPRAZOLE SULPHONE N-OXIDE	953787-54-7
LANSOPRAZOLE IMPURITY C	103577-40-8
LEVOFLOXACIN	
LEVOFLAXACIN CARBOXYLIC ACID	100986-89-8
LEVOFLOXACIN-N-OXIDE	117678-38-3
LOPERAMIDE	
LOPERAMIDE IMPURITY B	NA



KARPChem PRODUCT LIST 2019

LOPERAMIDE IMPURITY G	106900-12-3
LORATIDINE	
LORATIDINE-N-OXIDE	165739-62-8
LORATIDINE IMPURITY D	
METOPROLOL	
METOPROLOLEPIMPURITYA, METOPROLOL RELATED COMPOUNDA.	109632-08-8
METROPOLOL IMP B	56718-76-4
4-[METROPOLOLIMPC	29122-74-5
METOPROLOLEPIMPURITY O, METOPROLOL RELATED COMPOUND D. 1,1-[(1-METHYLETHYL)IMINO]BIS[3-[4-(2-METHOXYETHYL)PHENOXY] PROPAN-2-OL]	154784-36-8 FREE 1486464-40-7 (HCL SALT)
MESALAMINE	
MESALAMINE IMPURITY H	69-72-7
MESALAMINE IMPURITY I	3147-53-3
MESALAMINE IMPURITY L	118-91-2
MESALAMINE IMPURITY O	88-21-1
MESALAMINE IMPURITY Q	3970-35-2
METFORMIN	
Metformin EP Impurity A	461-58-5
Metformin EP Impurity D	108-78-1
Metformin EP Impurity C	1985-46-2
Metformin Impurity F	506-59-2
Metformin Impurity E	36801-25-9
METOCLOPRAMIDE	
METOCLOPRAMIDE IMPURITY H	50-86-2
MEFENAMIC ACID	
MEFENAMIC ACID IMPURITY C	118-91-2
MEFENAMIC ACID IMPURITY D	65-85-0
MYCOPHENOLATE	
MYCOHENOLATE IMPURITY F	24280-93-1



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METOLAZONE	
DESMETHYL METOLAZONE	28524-40-5
METOLAZONE BENZAMIDE ANALOG	23380-54-3
META - METALAZONE	50869-25-5
PARA - METALAZONE	28508-63-6
DIDEHYDROMETOLAZONE	4015-23-0
MILNACIPRAN	
1-Phenyl-3-oxabicyclo[3.1.0]hexan-2-one	63106-93-4
MEMANTINE	
3,5-DIMETHYLTRICYCLO[3.3.1.1 ^{3,7}]DECAN-1-AMINE	19982-08-2
MONTELUKAST	
MONTELUKAST SULFOXIDE	909849-96-3
MONTELUKAST EP IMPURITY B, STYRENE IMP	918972-54-0
MONTELUKAST IMPURITY 13	NA
MONTELUKAST IMPURITY DIOL	NA
MONTELUKAST EP IMPURITY D OR E, MICHAL ADDUCT	NA
Meloxicam	
Meloxicam USP Related Compound A	24683-26-9
Meloxicam EP Impurity B	7305-71-7
Meloxicam EP Impurity E	35511-15-0
NABUMETONE	
4-(6-METHOXY-2-NAPHTHALENYL)-2-BUTANONE; 1-(2'-METHOXYNAPHTH-6'-YL)BUTAN-3-ONE; 4-(6-METHOXY-2-NAPHTHYL)-2-BUTANONE;	42924-53-8
2-HYDROXY NABUMETONE	65726-24-1
OMEPRAZOLE	
OMEPRAZOLE RELATED COMPOUND B	37052-78-1
OMEPRAZOLE IMPURITY C	73590-85-9
OMEPRAZOLE IMPURITY F&G	125656-82-8+125656-83-9
OMEPRAZOLE IMPURITY I	158812-85-2
4-HYDROXY OMEPRAZOLE SULPHIDE	103876-98-8
OMEPRAZOLE RELATED COMPOUND A	88546-55-8
OMEPRAZOLE IMPURITY E	176219-04-8
OMEPRAZOLE IMPURITY B	110374-16-8
OFLAXACIN	
OFLAXACIN IMPURITY E	82419-52-1
ONDENSETRON	



KARPChem PRODUCT LIST 2019

ONDENSETRON IMPURITY D	99614-64-9
ONDENSETRON IMPURITY A	119812-29-2; 153139-56-1 FREE BASE
ONDENSETRON IMPURITY G	99614-03-6
ONDENSETRON IMPURITY C	27387-31-1
ONDENSETRON IMPURITY F	693-98-1
OXYBUTYNIN	
OXYBUTYNIN RELATED COMPOUND A	4335-77-7
PHENYLCYCLOHEXYLGLYCOLIC ACID PROPARGYL ESTER	81039-74-9
OLMESARTAN	
OLMESARTAN	144689-63-4
ETHYL 4-ACETYL-2-PROPYL-1H-IMIDAZOLE-5-CARBOXYLATE	NA
DIETHYL-2-PROPYLIMIDAZOLE-4,5-DICARBOXYLATE	144689-94-1
4,5-BIS(CHLOROMETHYL)-1,3-DIOXOL-2-ONE	NA
OLMESARTAN EP IMPURITY A	144689-24-7
OLMESARTAN EP IMPURITY B	849206-43-5
OLMESARTAN EP IMPURITY C	879562-26-2
OLMESARTAN EP IMPURITY D INSTOCK	1020157-01-0
OLMESARTAN ETHYL ESTER	144689-23-6
OLMESARTAN IMIDAZOLE DIACID IMPURITY	58954-23-7
OLMESARTAN METHYL ETHER WITH TR	NA
OLMESARTAN MEDOXOMIL METHYL ETHER	896419-17-3
N1-TRITYL OLMESARTAN MEDOXOMIL	144690-92-6
OLMESARTAN ETHYL ESTER TRITYL IMPURITY	144690-33-5
OLMESARTAN IMPURITY (N-(TRIPHENYLMETHYL)-5-(4'-BROMOMETHYLBIPHENYL-2-YL)TETRAZOLE)	124750-51-2
OLMESARTAN MEDOXOMIL IMPURITY 5 (4-(CHLOROMETHYL)-5-METHYL-1,3-DIOXOL-2-ONE)	80841-78-7
OLMESARTAN METHYL ESTER	1347262-29-6
OLMESARTAN METHYL KETONE	1227626-45-0
OLMESARTAN IMIDAZOLE ETHYL ESTER IMPURITY	144689-93-0
ORLISTAT	
Orlistat (Standard)	96829-58-2
Orlistat Open Ring amide impurity	NA
Orlistat Open Ring Epimer impurity	130793-28-1
Orlistat Open Ring Acid impurity (84% Purity)	130676-66-3
(S)-3-Hexyl-5,6-dihydro-6-undecyl-2H-pyran-2-one	130676-64-1
Orlistat USP Related Compound D	130793-27-0



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OLANZAPINE	
OLANZAPINE IMPURITY A	138564-59-7
OLANZAPINE AMINO IMPURITY	873895-41-1
OLANZAPINE IMPURITY 1	138564-58-6
OLANZAPINE IMPURITY 2	1493-27-2
OLANZAPINE IMPURITY D	174794-02-6
PIOGLITAZONE	
PIOGLITAZONE HCL	
	112529-15-4
PIOGLITAZONE IMPURITY A (5-HYDROXY PIOGLITAZONE)	625853-74-9
PIOGLITAZONE EP IMPURITY B	136401-69-9
PIOGLITAZONE EP IMPURITY C	952188-00-0
PIOGLITAZONE ALDEHYDE IMPURITY	114393-97-4
PIOGLITAZONE AMINO IMPURITY	85583-40-0
PIOGLITAZONE BROMO IMPURITY	669716-58-9
PIOGLITAZONE M1 METABOLITE	74772-78-4
PIOGLITAZONE IMPURITY	2295-31-0
PIOGLITAZONE IMPURITY	6/3/5223
PIOGLITAZONE IMPURITY	103788-60-9
PARACETAMOL	
PARACETAMOL IMPURITY J	539-03-7
PARACETAMOL IMPURITY F	100-02-7
PARACETAMOL IMPURITY K	51-78-5
PROPAFENONE	
PROPAFENONE IMPURITY A	3516-95-8
PROPAFENONE IMPURITY C	22525-95-7
PROPAFENONE IMPURITY E	165279-79-8
PROPAFENONE IMPURITY F	1329643-40-4
PROPAFENONE IMPURITY H	27439-12-9
PROMETHAZINE	
PROMETHAZINE IMPURITY D	7640-51-9
PACLITAXEL	
PACLITAXEL RELATED COMPOUND B	78454-17-8
PROPRANOLOL	
PROPRANOLOL IMPURITY A	36112-95-5
PROPRANOLOL IMPURITY C	17216-10-3
PALONOSETRON	
DEHYDROPALONOSETRON	NA
PREGABALIN	
PREGABALIN R ISOMER	148553-51-9



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PREGABALIN LACTAM IMPURITY	61312-87-6
PANTOPRAZOLE	
PANTOPRAZOLE EP Imp A	127780-16-9
PANTOPRAZOLE EP Imp B	102625-64-9
PALONOSERTRON	
PALONOSERTRON Related Compound A	813425-83-1
PALONOSERTRON Related Compound B	1021456-82-5
PRAMIPEXOLE	
PRAMIPEXOLE EP Impurity A	106092-09-5
PRAMIPEXOLE EP Impurity B	1246815-83-7
(S)-4,5,6,7-Tetrahydro-N2,N6-propionyl-2,6-benzothiazolodiamine	1346617-47-7
PRAMIPEXOLE EP Impurity E	106006-84-2
QUETIAPINE	
QUETIAPINE EP IMPURITY D	945668-94-0
QUETIAPINE EP IMPURITY G	7/7/3159
QUETIAPINE DBTC IMPURITY	13745-86-3
QUETIAPINE EP IMPURITY I	329216-67-3
QUETIAPINE EP IMPURITY A	844639-07-2
QUETIAPINE EP IMPURITY B	111974-74-4
QUETIAPINE EP IMPURITY H	1076199-40-0
QUETIAPINE EP IMPURITY O	844639-06-1
QUETIAPINE EP IMPURITY P	1011758-03-4
QUETIAPINE EP IMPURITY D	945668-94-0
QUINAPRIL	
QUINAPRIL IMPURITY C	82768-85-2
ROXITHROMYCIN	
N,N-DIDESMETHYL ROXITHROMYCIN	
ROXITHROMYCIN IMPURITY F	118267-18-8
RABEPRAZOLE	
RABEPRAZOLE IMPURITY B	924663-37-6
RABEPRAZOLE IMPURITY A	117976-47-3
RAMIPRIL	
RAMIPRIL IMPURITY D	108731-95-9
RAMIPRIL IMPURITY B	295328-72-2
RISPERIDONE	
RISPERIDONE IMPURITY C	144598-75-4
RISPERIDONE-N-OXIDE	832747-55-4
RISPERIDONE IMPURITY E	1346602-28-5
RANITIDINE	
RANITIDINE IMPURITY B	66356-53-4
ROSUVASTATIN	



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ROSUVASTATIN LACTONE	503610-43-3
RALOXIFENE	
RALOXIFENE RELATED COMPOUND C	195454-31-0
RANOLAZINE	
RANOLAZINE-N-OXIDE	NA
2-[(2-METHOXYPHENOXY)METHYL]OXIRANE. RANOLAZINE (RELATED COMPOUND A)	2210-74-4
3-(O-METHOXYPHENOXY)-1,2-PROPANEDIOL. RANOLAZINE (IMPURITY B)	93-14-1
N-(2,6-DIMETHYLPHENYL)-1- PIPERAZINEACETAMIDE	5294-61-1
1,3-BIS(2-METHOXYPHENOXY)PROPAN-2-OL	NA
RANOLAZINE IMPURITY	333749-57-8
2-(4-(3-(4-METHOXYPHENOXY)-2- HYDROXYPROPYL)PIPERAZIN-1-YL)-N-(2,6- DIMETHYLPHENYL)ACETAMIDE	NA
2-((4-METHOXYPHENOXY)METHYL)OXIRANE	NA
SILDENAFIL	
N-DESMETHYL SILDENAFIL	139755-82-1
SILDENAFIL IMPURITY B	1094598-75-0
SOLIFENACIN	
SOLIFENACIN IMPURITY D	180272-28-0
SERTRALINE	
SERTRALINE IMPURITY G	79617-95-1
TERIFLUNOMIDE	
TERIFLUNOMIDE ORTHO ISOMER	NA
TERIFLUNOMIDE META ISOMER	NA
TIROFIBAN	
TIROFIBAN IMPURITY A	149490-60-8
TIROFIBAN IMPURITY B HCL	149463-65-0
TETRACYCLINE	
TETRACYCLINE DEHYDRO IMPURITY	NA
TRAMADOL	
TRAMADOL-N-OXIDE	147441-56-3
TRAMADOL IMPURITY A	2914-77-2; 152538-36-8 (FREEBASE); 73806-49-2
TRAMADOL IMPURITY B	66170-32-9
TRAMADOL IMPURITY D	NA; 185453-02-5 HCL; 80456-81-1 (FB)
TRAMADOL IMPURITY C	905592-54-3 (FREE BASE)
TELMISARTAN	



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TELMISARTAN IMPURITY F	915124-86-6
TELMISARTAN RELATED COMPOUND A	152628-02-9
THIOCHOLCHICOSIDE	
3-O-DESMETHYL THIOCHOLCHICINE	87424-25-7
N-DEACETYL-N-FORMYL THIOCHOLCHICOSIDE	219547-29-2
N-DEACETYL-3-DEMETHYL THIOCHOLCHICINE	97043-09-9
THIOCHOLCHICOSIDE S-OXIDE	
TROSPIUM	
TROSPIUM CHLORIDE RELATED COMPOUND A	76-93-7
TROSPIUM IMPURITY D	467-32-3
TIMOLOL	
TIMOLOL IMPURITY D	NA
TIMOLOL IMPURITY B	158636-96-5
TOLTERIDONE	
TOLTERIDONE LACTONE	40546-94-9
TOLTERIDONE IMPURITY E	480432-14-2
TAMSULOSIN	
TAMSULOSIN IMPURITY D	80223-96-7
TAMSULOSIN HCL IMPURITY G	80223-99-0; 106463-19-8 RACEMATE
TAMOXIFEN	
TAMOXIFEN-N-OXIDE	75504-34-6
TRZADONE	
TRAZADONE IMPURITY B	62337-66-0
TRAZADONE IMPURITY C	
TRAZADONE IMPURITY D	1263278-80-3
TRAZADONE IMPURITY F	39577-43-0
VORTIOXETINE	
VORTIOXETINE METABOLITE	NA
VORTIOXETINE	508233-74-7
VORTIOXETINE IMPURITY 19 (VORTIOXETINE SULFOXIDE)	1429908-35-9
VORTIOXETINE IMPURITY 31 (2,4-DIMETHYLBENZENETHIOL)	13616-82-5
VORTIOXETINE IMPURITY 14	1240670-85-2
VORTIOXETINE IMPURITY 16	16704-47-5
VORTIOXETINE IMPURITY 18	13616-83-6
VORTIOXETINE IMPURITY 20	1446750-99-7
VORTIOXETINE IMPURITY 24	NA
VORTIOXETINE IMPURITY 25	1639263-80-1
VORTIOXETINE IMPURITY 29	NA
VORTIOXETINE IMPURITY 32	1610527-49-5



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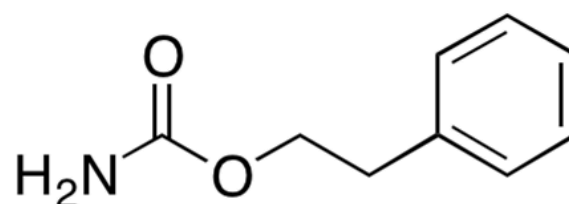
VORTIOXETINE IMPURITY 33	1019453-85-0
N-ACETYL VORTIOXETINE	NA
VALACICLOVIR	
VALACICLOVIR EP IMPURTIY D	1346747-69-0
VALACICLOVIR EP IMPURTIY F	86150-61-0
VALACICLOVIR EP IMPURTIY M	847670-62-6
VALPROIC ACID	
VALPROIC ACID	99-66-1
VALPROIC ACID EP Impurity K	5343-52-2
VALPROIC ACID EP Impurity D	52061-75-3
VALPROIC ACID EP Impurity A	109-52-4
WARFARIN	
4-HYDROXY-3-(3-OXO-1-PHENYL-BUTYL)-2H-1-BENZOPYRAN-2-ONE; 3-(A-ACETONYLBENZYL-4-HYDROXY-COUMARIN; WARF COMPOUND 42	81-81-2

Certificate of Analysis

FELBAMATE RELATED COMPOUND B

Chemical Name: Carbamic Acid Phenethyl Ester; Phenethyl Carbamate; USP Felbamate Related Compound B;

Structure:



Details and Features:

Sr. No.	Specifications	Details
1.	CAS Number	6326-19-8
2.	Product Code	KS-FEL-02
3.	Batch Number	KS-FEL-02-A-209
4.	Molecular Formula	C ₉ H ₁₁ NO ₂
5.	Molecular Weight	165.19
6.	Long-term Storage	Preserve well closed container protected from light at 2 to 8 °C
7.	Manufacturing Date	2018-APR-05
8.	Retest Date	2019-APR-05

Features: No-side effects, accurate composition, hygienically packed.

Sr.	Test	Results	Data ref.
1.	Appearance	White Solid	--
2.	Purity by HPLC	99.89%	Chromatogram Attached
3.	Mass	Conform	Report Attached
4.	¹ H NMR	Conform	Report Attached

This certificate of analysis is valid for two years from date of manufacturing provide material is stored under suitable conditions.

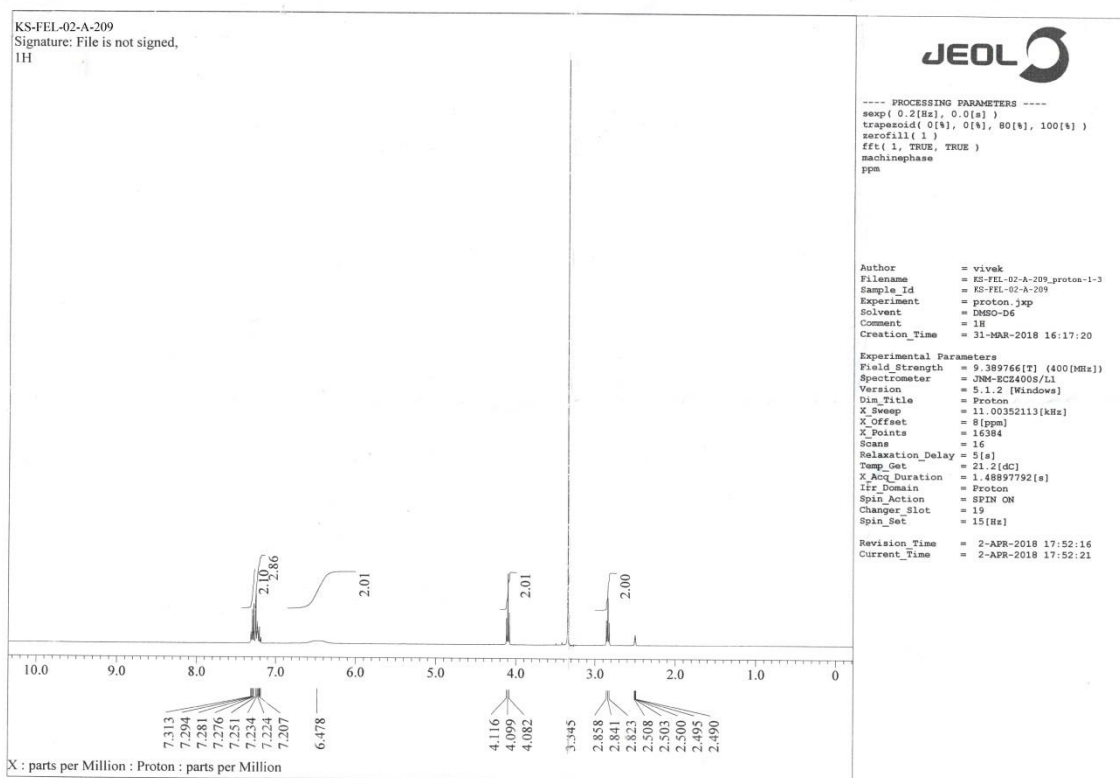
I. Identity

The identity of the reference substance was established by following analyses.

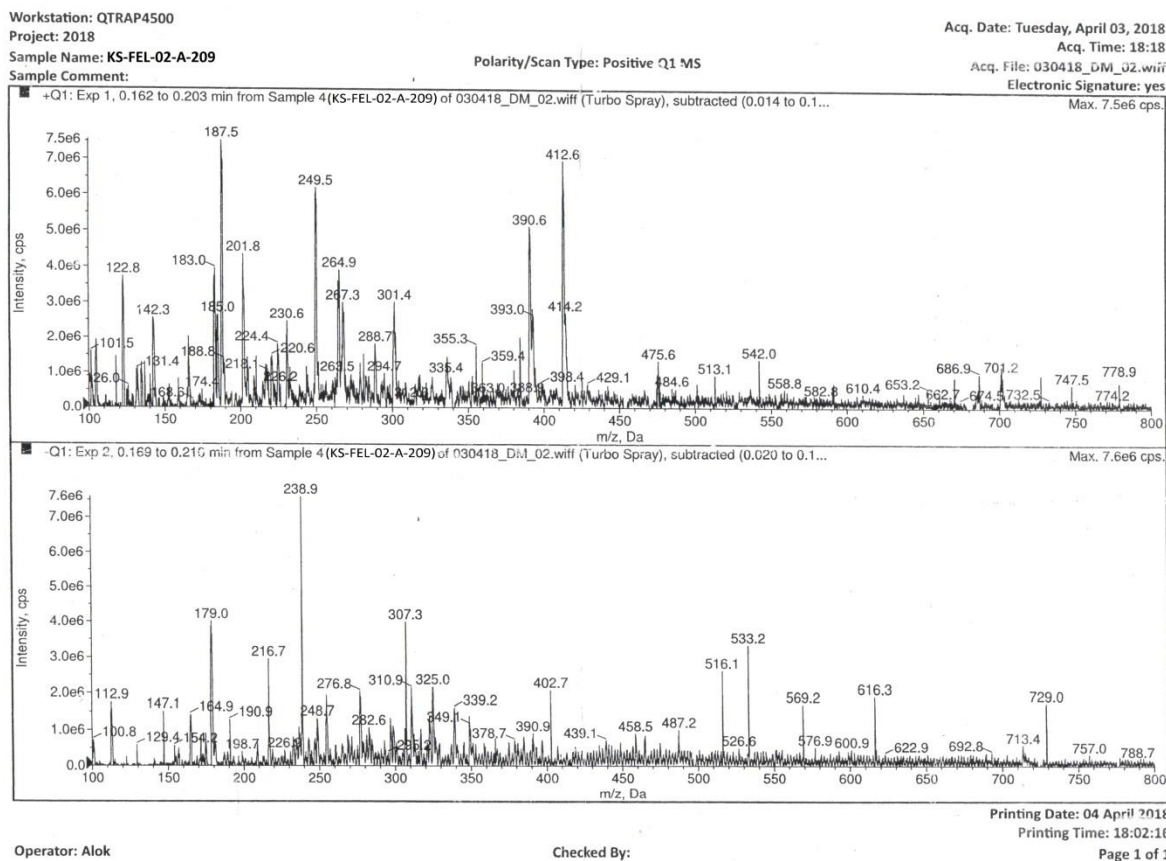
Ia. ¹H-NMR Spectrum

Conditions: 400 MHz, DMSO D6

The structure is confirmed with the signals of the spectrum and their interpretation.



Ib. Mass Spectrum



The signals of the mass spectrum and their interpretation are consistent with the structural formula.

II. Purity: The purity of the reference substance was analysed by high performance liquid chromatography (HPLC).

HPLC Conditions:

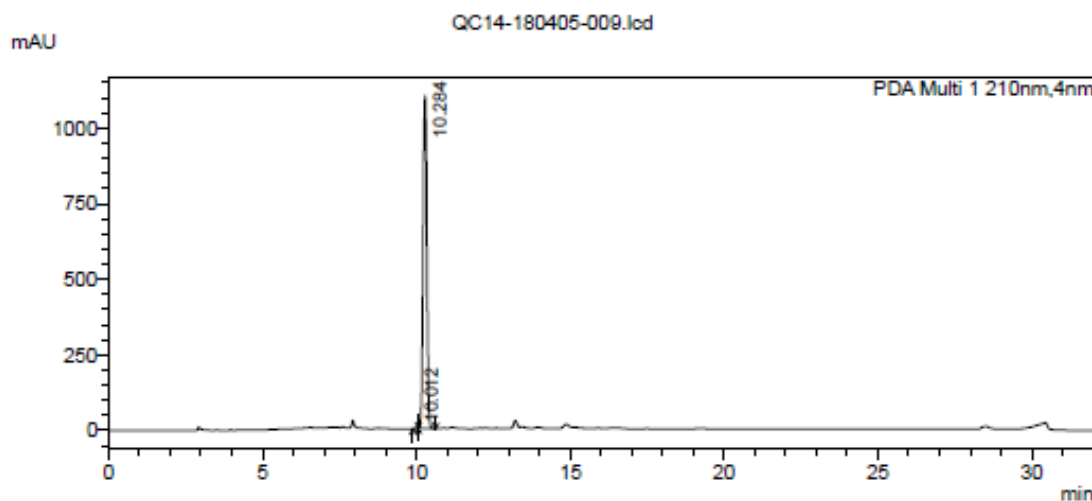
<Sample Information>

QC14-180405-009.lcd

Sample Name	: KS-FEL-02-A-209	Sample Type	: Unknown
Sample ID	: KS-FEL-02-A-209		
Data Filename	: QC14-180405-009.lcd		
Method Filename	: INHOUSE 32 MIN METHOD(0.1% OPA).lcm		
Batch Filename	: 05.04.2018.lcb		
Vial #	: 1-3		
Injection Volume	: 10 uL	Acquired by	: B. Raju
Date Acquired	: 05-Apr-18 4:29:30 PM	Processed by	: B. Raju
Date Processed	: 05-Apr-18 5:03:29 PM		

Mobile phase -A : 0.1% of orthophosphoric acid
 Mobile phase-B : Acetonitrile
 Flow rate : 1.0ml/min
 Temperature : 40° C
 Column : C18 250*4.6 5um
 Gradient program(T/M.P-B) : 0/10,10/75,15/80,23/80,25/80,26/10,32/10.
 Sample preparation : 1mg of sample dissolved in 1ml Methanol.

<Chromatogram>



<Peak Table>

QC14-180405-009.lcd

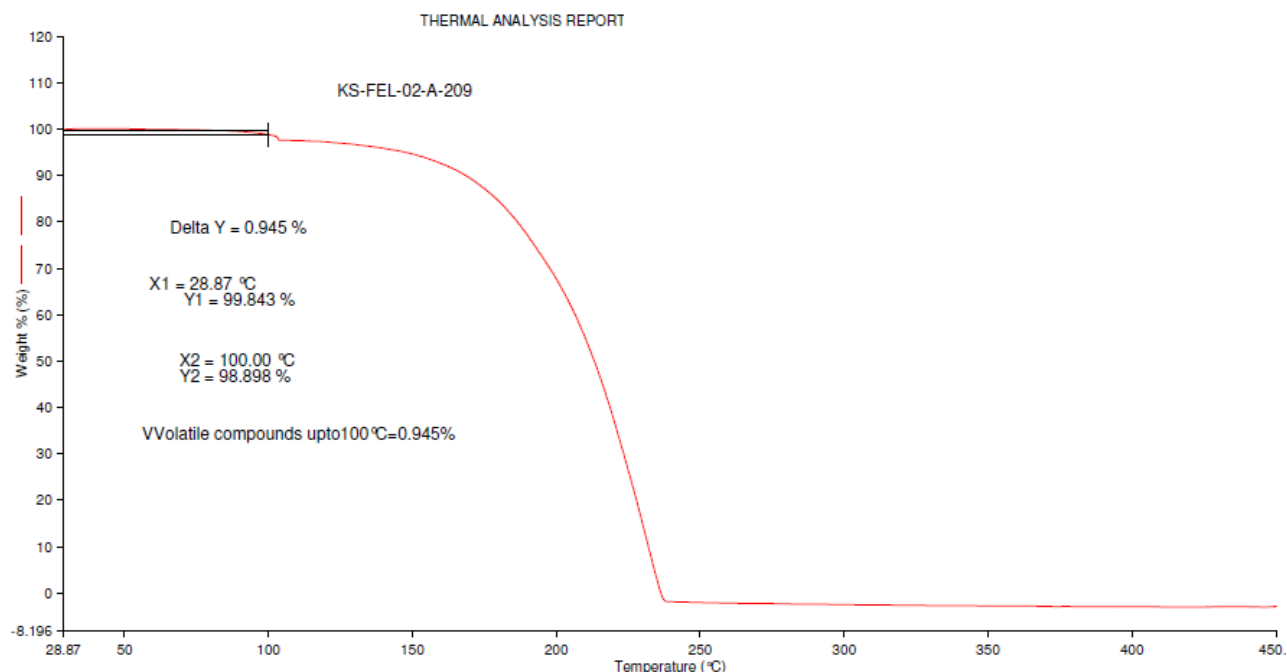
PDA Ch1 210nm				
Peak#	Ret. Time	Area	Height	Area%
1	10.012	9910	2047	0.105
2	10.284	9422692	1100694	99.895
Total		9432602	1102741	100.000

For the calculation the system peaks were ignored. The content of the analyte was determined as ratio of the peak area of the analyte and the cumulative areas of the purities, added up to 100 %.

III. Water Content

Method: TGA Thermograms, The Percent of weight loss at 28.87-100°C is 0.945%.

Filename: D:\SATL...KS-FEL-02-A-209@180407134113.tld
 Operator ID: Sravani Damarekula
 Sample ID: KS-FEL-02-A-209
 Sample Weight: 2.627 mg



07/04/2018 14:51:53

- | | |
|--|---|
| 1) Hold for 1.0 min at 30.00 °C | 4) Heat from 105.00 °C to 450.00 °C at 20.00 °C/min |
| 2) Heat from 30.00 °C to 105.00 °C at 20.00 °C/min | 5) Hold for 2.0 min at 450.00 °C |
| 3) Hold for 5.0 min at 105.00 °C | |

IV. Potency

%Potency = (Chromatographic purity – TGA Value) = (99.89-0.945) = 98.945%

V. Residual Solvents

Method: 1H-NMR

No significant amounts of residual solvents were detected (< 0.05 %).

VI. Final Result

Total impurities (HPLC) 0.11 %

Water Content: 0.945%

Purity by HPLC: 99.89

Residual solvents: < 0.05 %

Potency: 98.945%

VII. Remarks

Based on NMR, Mass spectra and other Analytical data, the material confirms to the specification.

VIII. Retest Date

This certificate of analysis is valid for one year from date of manufacturing provide material is stored under suitable conditions.

Prepared by

Mr. A. N. Taywade

Reviewed & Approved by

Dr. A. S. Nagare

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY INFORMATION

Product Name: FELBAMATE DIMER IMPURITY

Product No.: KS-FLE-03

Product Use: For laboratory research use only, not for drug, household or other uses.

Manufacture & Supplier: KARPS CHEM.SOLUTIONS LLP

W-67, Phase-II, Dombivli (E) MIDC, Behind DNS Bank, Thane-421204 Maharashtra INDIA

Mobile no: +91-9371639228

Website: www.karpschem.in

E-mail: info@karpschem.in

2. HAZARDS IDENTIFICATION

WHMIS Classification (Canada)

None Not WHMIS controlled.

2.1/2.2 Classification of the Substance or Mixture and Label Elements

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Not a hazardous substance by GHS.

EU Classification (According to EU Regulation 67/548/EEC)

Not a hazardous substance by this Classification.

EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements

None

Risk Codes and Phrases

Hazard Codes

None Not a hazardous substance by this Classification.

Safety Precaution Codes and Phrases

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200) Signal Word None

GHS Hazard Statements

None Not a hazardous substance according to GHS.

GHS Precautionary Statements

2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: 3,3'-Carbonylbis(oxy)bis(2-phenylpropane-3,1-diyl) Dicarbamate

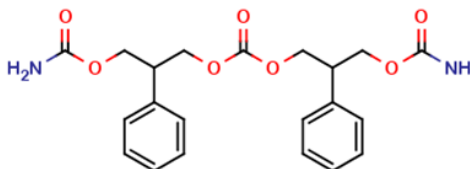
Synonym: Felbamate Dimer

CAS No.: 1796927-91-7

Molecular formula: $C_{21}H_{24}N_2O_7$

Molecular weight: 416.42

Chemical concentration: $\leq 100\%$



4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice

If medical attention is required, show this safety data sheet to the doctor.

If Inhaled

If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No data available.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from the Substance or Mixture

Carbon oxides, Nitrogen oxides

5.3 Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information

No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Storage conditions: Hygroscopic, -20°C Freezer, Under inert atmosphere.

Specific End Uses

For scientific research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Contains no components with established occupational exposure limits.

Exposure Controls

Appropriate Engineering Controls

A laboratory fume hood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

Personal Protective Equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

Eye/Face Protection

Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

Skin Protection

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as “chemical resistant” by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.

Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated “chemical resistant” as per EN 734 with the resistance codes corresponding to the anticipated use of the material.

Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.

Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

Body Protection

Fire resistant (Nomex) lab coat or coveralls.

Respiratory Protection

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance: Off white

Form: Semi-solid

Colour: off White

Odour: Odourless

Odour threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: 86-89°C

Boiling point/Boiling range: Not determined.

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined.

Ignition temperature:

Decomposition temperature: Not determined.

Self-igniting: Not determined.

Danger of explosion: Not determined.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapour pressure: Not applicable.

Density: Not determined.

Relative density: Not determined.

Vapour density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with

DMSO (Sparingly), Methanol (Slightly)

Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical stability: Stable under normal conditions.

Thermal decomposition / conditions to be avoided: See section 5

Possibility of hazardous reactions: No data available.

Conditions to avoid: No data available.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: See section 5.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Oral LD50: No data available.

Inhalation LC50: No data available.

Dermal LD50: No data available.

Skin Corrosion/Irritation: No data available

Serious Eye Damage/Irritation: No data available

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity/Teratogenicity: No data available

Single Target Organ Toxicity - Single Exposure: No data available

Single Target Organ Toxicity - Repeated Exposure: No data available

Aspiration Hazard: No data available

Potential Health Effects and Routes of Exposure: No data available

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs and Symptoms of Exposure

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

Additional Information

RTECS: Not available.

12. ECOLOGICAL INFORMATION

Toxicity

No data available.

Persistence and degradability-

No further relevant information available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Results of PBT and vPvB Assessment

No data available.

Other Adverse Effects

No data available.

13. DISPOSAL CONSIDERATION

Waste treatment methods

Product: Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

Contaminated Packaging: Dispose of as above.

Other Considerations: Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

14. TRANSPORTATION INFORMATION

UN-Number

DOT (US): N/A

IATA: N/A

IMDG: N/A

ADR/RID: N/A

UN Proper Shipping Name

DOT (US)/IATA: Not dangerous goods

IMDG/ARD/RID: Not dangerous goods

Transport Hazard Class(es)

DOT (US): N/A IATA: N/A IMDG: N/A ADR/RID: N/A

Packing Group

DOT (US): N/A IATA: N/A IMDG: N/A ADR/RID: N/A

Environmental Hazards

DOT (US): None IATA: None IMDG: None ADR/RID: None

Special Precautions for User

None

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

Safety, health and environmental regulations/legislation specific for the substance or mixture

Philippines Inventory of Chemicals and Chemical Substances Substance is not listed.

Australian Inventory of Chemical Substances Substance is not listed.

Standard for the Uniform Scheduling of Drugs and Poisons Substance is not listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out

16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. This MSDS is correct to the best of our knowledge at the date of publication but we cannot accept liability for any loss, injury or damage, which may result from its use.

Abbreviations and acronyms:

LD50 Median lethal dose of a substance required to kill 50% of a test population.

LC50 Medial lethal concentration of a substance required to kill 50% of a test population.

LDLo Lowest known lethal dose

TDLo Lowest known toxic dose

IARC International Agency for Research on Cancer

NTP National Toxicology Program

RTECS Registry of Toxic Effects of Chemical Substances

16. 1 Further Information

Copyright 2015. Karps Chem Solutions LLP Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.