

Handbook of

Ultraviolet Spectra

vapor phase

168-330 nm

Ludmila Lagesson-Andrasko and Verner Lagesson

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Cyclohexyl chloride	542187	45A
Cyclopentyl bromide	137439	45B
1,2-Dibromocyclohexane	7429370	45C
Hexachlorocyclohexane	58899	46A

3 Non-Aromatic Alcohols

3.1 Primary

n-Amyl alcohol	30899195	47A
1-Butanol	71363	47B
Decyl alcohol	112301	47C
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Ethyl alcohol	64175	48B
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2-Ethyl-1-hexanol	104767	49A
1-Heptanol	111706	49B
Hexyl alcohol	111273	49C
Methyl alcohol	67561	50A
(+/-)-2-Methyl-1-butanol	137326	50B
3-Methyl-1-butanol	123513	50C
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1-Pentanol	71410	51C
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3.2 Secondary

2-Butanol	15892236	52B
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2-Methyl-2-propanol	75650	54A
2-Octanol	4128318	54B
3-Pentanol	584021	54C
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3.3 Tertiary

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3.4 Diols

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1,4-Butanediol	110634	56B
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3.5 Unsaturated

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3.6 Cyclic

Borneol	507700	63A
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α -Terpineol	10482561	65C

3.7 Halogenated

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2-Chloro-1-hexanol	2009838	67B
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1-Methoxy-2-propanol	107982	81C

4.5 Epoxides

Epichlorohydrin	106898	82A
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4.6 Cyclic Ethers, Acetal and Ketals

Cineole	470826	82B
2,3-Dihydrofuran	1191997	82C
2,5-Dihydrofuran	1708298	83A
3,4-Dihydro-2H- pyran	110872	83B
1,3-Dioxane	505226	83C
1,4-Dioxane	123911	84A
2-Methyltetrahydrofuran	96479	84B
Tetrahydrofurfuryl alcohol	97994	84C
Tetrahydrofuran	109999	85A

5 Non-Aromatic Mercaptans and Sulfides

5.1 Mercaptans

1-Butanethiol	109795	87A
ter-Butylmercaptan	75661	87B
2,3-Dimercapto-1-propanol	59529	87C
1,2-Etandithiol	540636	88A
Hydrogen sulfide	7783064	88B
Isoamylmercaptan	541311	88C
Isopropyl mercaptan	75332	89A
2-Mercaptoethanol	60242	89B
Methanethiol	74931	89C
tert-Octylmercaptan		90A
Perchloromethyl mercaptan	594423	90B
1,3-Propanedithiol	109808	90C

5.2 Sulfides

Diallyl disulfide	2179579	91A
Diethyl sulfide	352932	91B
Dimethyldisulfide	624920	91C
1,3-Dithiane	505237	92A
Dodecyl methyl sulfide		92B
Ethyl methyl sulfide	624895	92C
Isopropyl sulfide	625809	93A
Methyl sulfide	75183	93B

6 Non-Aromatic Amines

6.1 Primary Saturated

Amylamine	110587	95A
Butylamine	109739	95B
sec-Butylamine	13250129	95C
tert-Butylamine	75649	96A
Decylamine	2016571	96B
Ethylamine hydrochloride	557664	96C
2-Ethylhexylamine	104756	97A
Heptylamine	111682	97B
Hexylamine	111262	97C
Isobutylamine	78819	98A
Isopropylamine	75310	98B
Methylamine	74895	98C
Octylamine	111864	99A
Propylamine	107108	99B

6.2 Primary Saturated Diamines

1,2-Diamino-2-methylpropane	811938	99C
1,3-Diaminopropane	109762	100A
Ethylenediamine	107153	100B
1,6-Hexanediamine	124094	100C

6.3 Secondary Saturated

Bis(2-ethylhexyl)amine	106207	101A
Dibutylamine	111922	101B
Diethylamine	109897	101C
Dihexylamine	143168	102A
Diisoamylamine	105511	102B
Diisopropylamine	108189	102C
Dimethylamine	143168	103A
Dipropylamine	142847	103B

6.4 Tertiary Saturated

N,N-Diisopropylethylamine	7087685	103C
N,N-Dimethyloctylamine	7378996	104A
N-Ethyldimethylamine	598561	104B
Tributylamine	102829	104C
Triethylamine	121448	105A
Triisobutylamine	1116401	105B
Tripentylamine	621772	105C

6.5 Saturated Polyamines

N,N-Diethylethylenediamine	100367	106A
3-Dimethylaminopropylamine	109557	106B
3,3-Iminobispropylamine	56188	106C
N-Isopropyl-2-methyl-1,2-propanediamine	5448293	107A
Spermidine	124209	107B
Tetraethylenepentamine	112572	107C
N,N,N,N-Tetramethylethylenediamine	110189	108A
Triethylenetetramine	112243	108B

6.6 Carbocyclic

Cyclohexylamine	108918	108C
1,2-Diaminocyclohexane	694837	109A
Dicyclohexylamine	101837	109B
N-Methylcyclohexylamine	100607	109C

6.7 Unsaturated

Allylamine	107119	110A
Diallylamine	124027	110B

6.8 Hydroxy or Alkoxy

4-Amino-1-butanol	13325105	110C
3-Amino-1-propanol	156876	111A
2-Amino-2-methyl-1-propanol	124685	111B
DL-1-Amino-2-propanol	78966	111C
2-Aminobutanol-(1)	96208	112A
Diethanolamine	111422	112B

Diethyl acetamidomalonate	1068902	112C
N,N-Diethyletanolamin	100378	113A
1-Dimethylamino-2-propanol	108167	113B
N,N-Dimethylethanolamine	108010	113C
N,N-Dimethylformamide dibutyl acetal	18503907	114A
N,N-Dimethylformamide dimethyl acetal	4637245	114B
Ethanolamine	141435	114C

6.9 Heterocyclic

1,4-Dimethylpiperazine	106581	115A
4-Ethylmorpholine	100743	115B
Hexamethyleneimine	111499	115C
1-Methyl-2-pyrrolidinone	872504	116A
4-Methylmorpholine	109024	116B
1-Methylpiperazine	109013	116C
2-Methylpiperazine	109079	117A
4-Methylpiperidine	626584	117B
1-Methylpyrrolidine	120945	117C
Morpholine	110918	118A
Piperidine	110894	118B
Pyrrolidine	123751	118C
2,2,6,6-Tetramethylpiperidine	768661	119A

6.10 Quarternary Ammonium Salts

Tetra butylammonium iodide	3916152	119B
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7 Non-Aromatic Nitro and Nitroso

7.1 Nitrate

Isoamyl nitrate		121A
Isopropyl nitrate	1712647	121B
Propyl nitrate	627134	121C

7.2 Nitro

2-Nitro-1-propanol	2902967	122A
Nitroethane	79243	122B
Nitromethane	75525	122C
1-Nitropentane	628057	123A
1-Nitropropane	108032	123B
Tetranitromethane	509148	123C
Trichloronitromethane	76062	124A
Trinitromethane		124B

8 Non-Aromatic Ketones

8.1 Saturated

Acetone	67641	125A
2-Butanone	78933	125B
2-Decanone	693549	125C
2,4-Dimethyl-3-pentanone	565800	126A
2,6-Dimethyl-4-heptanone	108838	126B
3-Ethyl-2-pentanone		126C
2-Heptanone	110430	127A
3-Heptanone	106354	127B
4-Heptanone	123193	127C
2-Hexanone	591786	128A
3-Hexanone	589388	128B
3-Methyl-2-butanone	563804	128C
3-Methyl-2-heptanone	2371199	129A
5-Methyl-3-heptanone	541855	129B
5-Methyl-2-hexanone	110123	129C
2-Methyl-3-pentanone	565695	130A
3-Methyl-2-pentanone	565617	130B
4-Methyl-2-pentanone	108101	130C
2-Octanone	111137	131A
3-Octanone	106683	131B
2-Pentanone	107879	131C
3-Pentanone	96220	132A
Pinacolone	75978	132B

8.2 Unsaturated

4-Acetoamino-3-penten-2-one		132C
1-Buten-3-one	78944	133A
2-Ethylene cyclohexanone		133B
5-Hexen-2-one	109499	133C
Mesityl oxide	141797	134A
2-Methyl-2-hepten-6-one	110930	134B
Phorone	504201	134C

8.3 Halogenated

Chloroacetone	78955	135A
1,1-Dichloroacetone	513882	135B
Hexachloroacetone	116165	135C

8.4 Hydroxy

Acetol, Hydroxy-2-propanone	116093	136A
3-Hydroxy-2-butanone	513860	136B
4-Hydroxy-4-methyl-2-pentanone	123422	136C

8.5 Acetal

Acetylacetaldehyde dimethyl acetal	5436215	137A
Pyruvic aldehyde dimethyl acetal	6342569	137B

8.6 Diketones

Acetonylacetone	110134	137C
2,4-Hexanedione		138A
N-Iodosuccinimide	516121	138B
2,4-Pentanedione	123546	138C

8.7 Cyclic

1,4-Benzoquinone	106514	139A
Camphor	21368683	139B
RCarvone	6485401	139C
Cyclododecanone	830137	140A
1,4-Cyclohexanedione	637887	140B

Cyclohexanone	108941	140C
Cyclooctanone	502498	141A
Cyclopentanone	120923	141B
Dimedone	126818	141C
2,6-Dimethylcyclohexanone	2816571	142A
Fenchone	4675629	142B
1-(2-Hydroxyethyl-2-pyrrolidinone	3445112	142C
Isophorone	78591	143A
3-Methylcyclohexanone	591242	143B
Tetrachloro-1,2-benzoquinone		143C

9 Non-Aromatic Aldehydes

9.1 Saturated Open Chain

Acetaldehyde	75070	145A
Butanal	123728	145B
Decyl aldehyde	112312	145C
Glutaric dialdehyde	111308	146A
Heptaldehyde	111717	146B
Hexanal	66251	146C
Isobutyraldehyde	78842	147A
2-Methylbutyraldehyde	96173	147B
Nonyl aldehyde	124196	147C
Octyl aldehyde	124130	148A
Pentanal	110623	148B
Propionaldehyde	123386	148C

9.2 Unsaturated Open Chain

Acrolein, 2-Propenal	107028	149A
Citronellal	2385775	149B
Crotonaldehyde	123739	149C
2,4-Decadienal	25152845	150A
2,4-Heptadienal	4313035	150B
2-Heptenal	18829555	150C
2-Hexenal	6728263	151A
2-Methyl-2-butenal	487030	151B
2-Methyl-propenal	78853	151C
2-Octenal	2363895	152A
2-Pentenal	1576870	152B

9.3 Cyclic

Cyclohexanecarboxaldehyde	2043610	152C
1,2,3,6-Tetrahydrobenzaldehyde	100505	153A

9.4 Halogenated

Chloroacetaldehyde	107200	153B
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9.5 Alkoxy, Hydroxy, Thio or Amino

Formaldehyde	50000	153C
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10 Non-Aromatic Carboxylic Acids

10.1 Saturated Open Chain

Butyric acid	107926	155A
2-Ethylhexanoic acid	149575	155B
Formic acid	64186	155C
Heptanoic acid	111148	156A
Hexanoic acid	142621	156B
Isobutyric acid	79312	156C
2-Methylbutyric acid	600077	157A
4-Methyl-pentanoic acid	646071	157B
Propionic acid	79094	157C

10.2 Unsaturated Open Chain

Acrylic acid	79107	158A
Crotonic acid	107937	158B
Methacrylic acid	79414	158C

10.3 Halogenated Open Chain

Bromoacetic acid	79083	159A
2-Bromopropionic acid	598721	159B
2-Chloropropionic acid	59887	159C
3-Chloropropionic acid	107948	160A
Heptafluorobutyric acid	375224	160B
Tribromoacetic acid	75967	160C
Trifluoroacetic acid	76051	161A

10.4 Mercaptan

3-Mercaptopropionic acid	107960	161B
Thiolactic acid		161C

11 Non-Aromatic Esters and Lactones

11.1 Saturated open Chain

Adipic acid diethyl ester		163A
Amyl acetate	628637	163B
Butyl acetate	123864	163C
tert-Butyl acetate	540885	164A
sec-Butyl acetate	105464	164B
tert-Butyl formate	762754	164C
Ethyl acetate	141786	165A
Ethyl formate	109944	165B
Ethyl propionate	105373	165C
Ethyl succinate		166A
Ethyl trimethylacetate	3938952	166B
Ethylcapronate		166C
Isoamyl acetate	123922	167A
Isoamyl formate	110452	167B
Isobutyl acetate	110190	167C
Isobutyl formate	542552	168A
Isopropyl acetate	108214	168B
Methyl butyrate	623427	168C
Methyl caproate	106707	169A
Methyl caprylate	111115	169B
Methyl formate	107313	169C
Methyl propionate	554121	170A
2-Methyl-1-butyl formate		170B
Propyl acetate	109604	170C

11.2 Carbonates

Diethyl carbonate	105588	171A
Di-tert-butyl dicarbonate	24424995	171B

11.3 Saturated Polyesters

Diethyl adipate	141286	171C
Diethyl butylmalonate	133084	172A
Diethyl di-n-butyl malonate		172B
Diethyl ethylmalonate	133131	172C
Diethyl malonate	105533	173A
Diethyl oxalate	95921	173B
Diethyl succinate	123251	173C
Dimethyl malonate	108598	174A
Dimethyl oxalate	553902	174B
Ethyl oxalate		174C
Pentanoic acid ethyl ester		175A
4-Valerolactone	108292	175B

11.4 Cyclic

Bornyl acetate	5655618	175C
3-Cyclohexene-1-carboxylic acid methyl ester		176A
Methyl cyclohexylacetate	14352615	176B

11.5 Unsaturated

Allyl methacrylate	96059	176C
Butyl acrylate	141322	177A
Diethyl fumarate	623916	177B
Diethyl maleate	141059	177C
Dimethyl fumarate	624497	178A
Ethyl acrylate	140885	178B
Ethylene glycol dimethacrylate	97905	178C
Isopropenyl acetate	108225	179A
Methyl 3- cyclohexenecarboxylate		179B
Methyl methacrylate	80626	179C
Vinyl acetate	108054	180A

11.6 Halogenated

Bromoacetate methylester	96322	180B
2-Bromoethyl acetate	927684	180C
DL-2-Bromoproionic acid ethylester	535115	181A
DL-B-Chloro-n-butyric acid methylester		181B
Dichloroacetic acid ethylester		181C

Diethyl bromoethylmalonate		182A
Ethyl bromoacetate	105362	182B
Ethyl chloroacetate	105395	182C
Ethyl-2-bromo-2-methylpropionate	600000	183A

11.7 Hydroxy or Alkoxy

2-Butoxyethyl acetate	112072	183B
Diethyl ethoxymethylenemalonate	87138	183C
Diethyl L-tartrate	87912	184A
Diisopropyl L-tartrate	2217154	184B
Dimethyl methylmalonate	609029	184C
Dimethyl-L-tartrate	608684	185A
2-2-Ethoxyethoxyethyl acetate	112152	185B
2-Ethoxyethyl acetate	111159	185C
Ethyl 3-ethoxypropionate	763699	186A
2-Hydroxyethyl methacrylate	868779	186B
2-Methoxyethyl acetate	110496	186C
Propylene glycol methyl ether acetate	108656	187A
L-Tartaric acid dibutyl ester	87923	187B

11.8 Mercaptan or Sulfide

Ethyl 2-mercaptoacetate	623518	187C
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11.9 Keto

Adipic acid diethyl ester		188A
Ethyl 2-oxocyclopentanecarboxylate	611109	188B
Ethyl acetoacetate	141979	188C
Ethyl diacetoacetate	603690	189A
2-Oxopropanoic acid ethyl ester		189B

11.10 Carboxy

Di-tert-butyl iminodicarboxylate	51779329	189C
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11.11 Lactones

γ -Butyrolactone	96480	190A
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12 Non-Aromatic Anhydrides

12.1 Open Chain

Butyric anhydride	106310	191A
Carbon disulfide	75150	191B
Heptafluorobutyric anhydride	336594	191C
Methacrylic anhydride	760930	192A
Propionic anhydride	123626	192B
Trifluoroacetic acid anhydride	407250	192C

13 Non-Aromatic Acid Halides

13.1 Saturated

Acetyl chloride	75365	193A
Trimethylacetyl chloride	3282302	193B
Chloroacetyl chloride	79049	193C

13.2 Chloroformates and Ester Acid Halides

Ethyl chloroformate	541413	194A
Isobutyl chloroformate	543271	194B

13.3 Diacid Halides

Succinyl chloride	543204	194C
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14 Non-Aromatic Acid Amides

14.1 Primary Open Chain

Acetamide	60355	195A
2-Chloroacetamide	79072	195B
3-Chloropropionamide	5875241	195C
N,N-Dibutylformamide	761659	196A
Fluoroacetamide	640197	196B
Formamide	75127	196C
Iodoacetamide	144489	197A
Methacrylamide	79390	197B
Propionamide	79050	197C
2,2,2-Trichloroacetamide	594650	198A

14.2 Secondary Open Chain

N-Methylbis(trifluoroacetamide)	685278	198B
N-Methylformamid	123397	198C

14.3 Tertiary Open Chain

N,N-Diethylformamide	617845	199A
N,N-Dimethylacetamide	127195	199B
N,N-Dimethylformamide	68122	199C

14.4 Heterocyclic

1-Formylpiperidine	2591868	200A
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14.5 Carbamates

Diethyl azodicarboxylate	908662	200B
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14.6 Lactams

1-Vinyl-2-pyrrolidinone	88120	200C
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14.7 Ureas

1,3-Dimethyl-2-imidazolidinone	80739	201A
1,1,3,3-Tetramethylurea	632224	201B

14.8 Cyclic Amides (not Lactams)

γ -Caprolactam	105602	201C
1,3-Dimethylbarbituric acid	769426	202A
1,3-Dimethyl-3,4,5,6-tetrahydro-2-(1H)-pyrimidinone	7226235	202B

14.9 Imines, Guanidines, Biguanides, Amidines

N-Ethylmaleimide	128530	202C
1,1,3,3-Tetramethylguanidine	80706	203A

15 Non-Aromatic Nitriles and Cumulated Double Bonds

15.1 Nitriles

Acetonitrile	75058	205A
Acrylonitril	107131	205B
Adiponitrile		205C
2,2-Azobis-(2-methylpropionitrile)	78671	206A
4-Bromobutyronitrile	5332069	206B
Butyronitrile	109740	206C
Chloroacetonitrile	107142	207A
3-Chloro-propionitrile	542767	207B
3-Dimethylaminopropionitrile	1738256	207C
Ethyl cyanoacetate	105566	208A
Ethyl diazoacetate	623734	208B
Trichloroacetonitrile	545062	208C

15.2 Carbodiimides

1,3-Diisopropylcarbodiimide	693130	209A
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16 Non-Aromatic Sulfur Oxygen Compounds

16.1 Sulfoxides and Sulfones

n-Butylsulfoxide	2168936	211A
Methyl sulfoxide	67685	211B
Propyl sulfoxide	4253912	211C
Vinylsulfone, Divinylsulfone	77770	212A

16.2 Sulfonyl Halides

Methanesulfonyl chloride	124630	212B
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17 Non-Aromatic Phosphorous Compounds

17.1 Phosphines

Phosphine	7803512	213A
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17.2 Phosphites

Diethyl phosphite	762049	213B
Trimethyl phosphite	121459	213C

Tributyl phosphite	102852	214A
Triethyl phosphite	122521	214B
Tripentyl phosphite		214C

17.3 Phosphonates

Methyl diethylphosphonoacetate	1067749	215A
Triethyl phosphonoacetate	867130	215B

17.4 Phosphates

Monocrotophos	6923224	215C
Tributyl phosphate	126738	216A

18 Aromatic Hydrocarbons

18.1 Alkyl Substituted

Amylbenzene	538681	217A
Benzene	71432	217B
Butylbenzene	104518	217C
tert-Butylbenzene	98066	218A
Cumene	98828	218B
p-Cymene	99876	218C
Diphenylmethane	101815	219A
Ethylbenzene	100414	219B
Nonyl-benzene	1081772	219C
Propylbenzene	103651	220A
Toluene	108883	220B
1,3,5-Trimethylbenzene	108678	220C
1,2,3-Trimethylbenzene	526738	221A
1,2,4-Trimethylbenzene	95636	221B
Triphenylmethane	519733	221C
o-Xylene	95476	222A
m-Xylene	108383	222B
p-Xylene	106423	222C

18.2 Alkenyl Substituted

Styrene	100425	223A
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18.3 Non-fused Multiple Ring

Biphenyl	92524	223B
trans,trans-Diphenyl-1,3-butadiene	886657	223C
1,4-p-Therpenyl	92944	224A

18.4 Fused Ring

Acenaphthene	83329	224B
Acenaphthylene	208968	224C
Anthracene	120127	225A
1,2-Benzanthracene	56553	225B
BenzoApyrene	50328	225C
1,6-Dimethylnaphthalene	575439	226A
Fluorene	86737	226B
Indene	95136	226C
1-Methylnaphthalene	90120	227A
2-Methylnaphthalene	91576	227B
Naphthalene	91203	227C
1-Naphthalenyl methyl-carbamate	63252	228A
Phenanthrene	85018	228B
Pyren	129000	228C

19 Aromatic Halogenated Hydrocarbons

19.1 Mono-substituted

Benzal bromide	618315	229A
Benzyl bromide	100390	229B
Benzyl chloride	100447	229C
1-Bromo-3-phenylpropane	637592	230A
Bromobenzene	108861	230B
Chlorobenzene	108907	230C
Fluorobenzene	462066	231A
Iodobenzene	591504	231B

19.2 Orto-disubstituted

1-Bromo-2-fluorobenzene	1072851	231C
α -Bromo-o-xylene	89929	232A
2-Chlorobenzyl chloride	611198	232B
1,2-Dichlorobenzene	95501	232C
2-Fluorobenzyl chloride	345357	233A

19.3 Meta-disubstituted

3-Chlorotoluene	108418	233B
3-Iodotoluene	625956	233C

19.4 Para-disubstituted

1-Bromo-4-chlorobenzene	106398	234A
4-Bromobenzyl bromide	589151	234B
4-Bromotoluene	106387	234C
4-Chlorobenzyl chloride	104836	235A
α -Chloro-p-xylene	104825	235B
1,4-Dibromobenzene	106376	235C
1,4-Dichlorobenzene	106467	236A
α,α -Dichloro-p-xylene	623256	236B
4-Iodotoluene	624317	236C

19.5 Trichloro or Trifluoromethyl

4-Bromobenzotrifluoride	402437	237A
1,2,3-Trichlorobenzene	87616	237B
α,α,α -Trifluorotoluene	98088	237C

19.6 Other Substituted

α -Bromo-2,3,4,5,6-pentafluorotoluene	1765408	238A
3,4-Dichlorobenzyl chloride	102476	238B
2,4-Dichlorobenzyl chloride	94955	238C

Pentachlorobenzene	608935	239A
1,2,4,5-Tetrabromobenzene	636282	239B
Tetrachlorobenzene	95943	239C
2,6, α , α -Tetrachlorotoluene	81196	240A
1,3,5-Tribromobenzene	626391	240B
1,2,4-Trichlorobenzene	120821	240C
α ,2,4-Trichlorotoluene	94995	241A
α ,2,6-Trichlorotoluene	2014837	241B

19.7 Multiple Ring

9-Bromoanthrazene	1564643	241C
4-Bromobiphenyl	92660	242A
Bromodiphenylmethane	776749	242B
1-Bromonaphthalene	90119	242C
1-Chloronaphthalene	90131	243A
2-Chloronaphthalene	91587	243B
DDT	50993	243C
Bis-(4-fluorophenyl)-methane	457681	244A

20 Aromatic Ethers

20.1 Aryl-alkyl

Anethole	104461	245A
Anisole	100663	245B
2-Bromoanisole	578574	245C
4-Bromoanisole	104927	246A
iso-Butoxy-phenyl		246B
2,6-Dichloroanisole	1984652	246C
1,3-Dimethoxybenzene	151100	247A
1,4-Dimethoxybenzene	150787	247B
2,5-Dimethyl-1-methoxybenzene		247C
2-Iodoanisole	529282	248A
4-Iodoanisole	696628	248B
Isosafrole	120581	248C
3-Methyl-1-methoxybenzene		249A
Phenetole	103731	249B
Phenoxy-isopropyl		249C

Propyl-phenyl ether		250A
2,3,6-Trichloroanisole	50375105	250B
Veratrole	91167	250C
Xanthene	92831	251A

20.2 Diaryl

Phenyl ether	101848	251B
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20.3 Miscellaneous

Benzyl ether	103504	251C
1,4-Dihydroxybenzenmonobenzyl ether		252A
Ethyl 2-naphthyl ether	93185	252B
2-Methoxynaphthalene	93049	252C

21 Aromatic Alcohols and Phenols

21.1 Phenols

6-Allyl-2-methoxyphenol		253A
4-Allyl-2-methoxyphenol		253B
2-Allylphenol	1745819	253C
4-tert-Amylphenol	80466	254A
4-Amylphenol	14938353	254B
4-Benzylphenol		254C
2-Bromophenol	95567	255A
4-Bromophenol	106412	255B
2-tert-Butyl-4-methylphenol	2409554	255C
2-tert-Butyl-6-methylphenol	2219821	256A
2-tert-Butylphenol	88186	256B
4-tert-Butylphenol	98544	256C
Carvacrol	499752	257A
4-Chloro-2-methylphenol	1570645	257B
4-Chloro-3,5-dimethylphenol	88040	257C
4-Chloro-3-methylphenol	59507	258A
3-Chloro-5-methoxyphenol	65262966	258B

2-Chloro-6-methylphenol	87649	258C
o-Chloro-m-cresol		259A
2-Chlorophenol	95578	259B
3-Chlorophenol	108430	259C
4-Chlorophenol	106489	260A
o-Cresol	95487	260B
m-Cresol	108394	260C
p-Cresol	106445	261A
p-Cresolmethyl ether		261B
4-Cyclohexylphenol		261C
2,6-Diallylphenol		262A
2,6-Dibromo-4-methylphenol	2432146	262B
2,4-Dichloro-3,5-dimethylphenol	133539	262C
2,4-Dichloro-o-cresol		263A
2,3-Dichlorophenol	576249	263B
2,4-Dichlorophenol	120832	263C
2,5-Dichlorophenol	583788	264A
2,6-Dichlorophenol	87650	264B
3,4-Dichlorophenol	95772	264C
3,5-Dichlorophenol	591355	265A
2,6-Diisopropylphenol	2078548	265B
2,3-Dimethoxyphenol	5150425	265C
2,6-Dimethoxyphenol	91101	266A
3,4-Dimethoxyphenol		266B
3-Dimethylaminophenol	99070	266C
2,3-Dimethylphenol	526750	267A
2,4-Dimethylphenol	105679	267B
2,5-Dimethylphenol	95874	267C
2,6-Dimethylphenol	576261	268A
3,4-Dimethylphenol	95658	268B
3,5-Dimethylphenol	108689	268C
2,6-Di-tert-butyl-4-methylphenol		269A
2,4-Di-tert-butylphenol	96764	269B
2,6-Di-tert-butylphenol	128392	269C
2-Ethylphenol	90006	270A
3-Ethylphenol	620177	270B
4-Ethylphenol	123079	270C
Eugenol	97530	271A
2-Fluorophenol	367124	271B

3-Fluorophenol	372203	271C
4-Fluorophenol	371415	272A
4-Hydroxy-3-methoxybenzyl ether		272B
2-Iodophenol	533584	272C
Isoeugenol	97541	273A
2-Isopropylphenol	99697	273B
2-Methoxy-4-methylphenol	93516	273C
2-Methoxyphenol	90051	274A
4-Methoxyphenol	150765	274B
5-Methyl-2-isopropylphenol	89838	274C
2-Methyl-4-tert-butylphenol		275A
2-Methyl-4-tert-hexylphenol		275B
2-Methyl-6-allylphenol	3354583	275C
2-Methyl-6-propylphenol		276A
3-Methyl-6-tert-butylphenol		276B
Nonylphenol	11066492	276C
Octylphenol	1806264	277A
2,3,4,5,6-Pentachlorophenol	1285380	277B
Phenol	108952	277C
2,3,4,6-Tetrachlorophenol	58902	278A
2,3,5,6-Tetramethylphenol	537355	278B
2,4,6-Tribromo-m-cresol	4619743	278C
2,4,6-Tribromophenol	118796	279A
2,4,6-Trichlorophenol	88062	279B
2,4,5-Trichlorophenol	95954	279C
α,α,α-Trifluoro-m-cresol	98179	280A
2,3,5-Trimethylphenol	697825	280B
2,4,6-Trimethylphenol	527606	280C
2,4,5-Trimethylphenol	496786	281A

21.2 Catechols

Catechol	120809	281B
3-Methylcatechol	488175	281C
4-Methylcatechol	452868	282A
1,2,3-Trihydroxybenzene	87661	282B
1,3,5-Trihydroxybenzene	108736	282C

21.3 Resorcinols

2,4-Dibromophenol	615587	283A
Orcinol monohydrate	6153395	283B
Resorcinol	108463	283C

21.4 Hydroquinones

1,4-Dihydroxybenzene, Hydroquinone	123319	284A
Hydroquinone dimethylether		284B
Tetrachlorohydroquinone		284C

21.5 Polycyclic Phenols

4-Benzyl-phenol		285A
2,2-Biphenol	1806297	285B
4,4-Dihydroxybiphenyl-2,2-propane		285C
1,3-Dihydroxynaphthalene	132865	286A
2,3-Dihydroxynaphthalene	92444	286B
2,7-Dihydroxynaphthalene	582172	286C
2-Hydroxy-1,2-diphenyl-ethanone	119539	287A
4-Hydroxybiphenyl		287B
1-Naphthol	90153	287C
2-Naphthol	135193	288A
2-Phenylphenol	90437	288B
4-Phenylphenol	92693	288C

21.6 Aryl-aliphatic Alcohols

Benzyl alcohol	100516	289A
N-Benzylloxycarbonyl glycine	1138803	289B
4-Chlorobenzyl alcohol	873767	289C
Cinnamyl alcohol	104541	290A
3,4-Dimethoxybenzyl alcohol	93038	290B
Diphenyl-methanol, Benzhydrol	91010	290C
9-Hydroxyxanthene, Xanthidrol	90460	291A
4-Hydroxy-3-methoxybenzyl alcohol	498000	291B
4-Hydroxybenzyl alcohol	623052	291C
2-Hydroxybenzyl alcohol	90017	292A
3-Hydroxybenzyl alcohol	620246	292B
3-Methoxybenzyl alcohol	6971513	292C
Phenethyl alcohol, 2-Phenylethanol	60128	293A
2-Phenoxyethanol	122996	293B
3-Phenyl-1-propanol	122974	293C
1-Phenyl-2-propanol	14898874	294A
2-Phenyl-2-propanol	617947	294B
sec-Phenylethyl alcohol	98851	294C

22 Aromatic Mercaptans, Sulfides and Selenides

22.1 Mercaptans

Benzyl mercaptan, alpha-Mercapto-toluene	100538	295A
2-Mercapto-benzazole-2-benzoxazolthiol		295B
2-Naphthalene thiol, 2-Naphthyl mercaptan	91601	295C
o-Mercaptobenzoic acid	147933	296A
Thiophenol	108985	296B

22.2 Sulfides and Selenides

Benzyl disulfide	150607	296C
Dibenzyl diselenide	1482822	297A
Methyl phenyl sulfide	100685	297B
Phenyl disulfide	882337	297C
4-Tolyl disulfide	103195	298A

23 Aromatic Amines

23.1 Single Ring Anilines

Acetyldiphenylamine	519879	299A
3-Aminobenzotrifluoride	98168	299B
4-Aminobenzotrifluoride	455141	299C
2-Aminophenol	95556	300A
3-Aminophenol	591275	300B
4-Aminophenol	123308	300C
Aniline	62533	301A
o-Anisidine	90040	301B
m-Anisidine	536903	301C
p-Anisidine	104949	302A
N-Benzyl-N-ethylaniline	92591	302B
3-Bromoaniline	591195	302C
4-Bromoaniline	106401	303A
3-Chloro-2-methylaniline	87605	303B
3-Chloro-4-methylaniline		303C
2-Chloro-6-methylaniline	87638	304A
2-Chloroaniline	95512	304B
3-Chloroaniline	108429	304C
4-Chloroaniline	106478	305A
3-Chloro-o-anisidine		305B
4-Chloro-o-anisidine		305C
1,2-Dianilinoethane	150618	306A
2,4-Dibromoaniline	615576	306B
2,4-Dichloroaniline	554007	306C
2,5-Dichloroaniline	95829	307A
2,6-Dichloroaniline	608311	307B
3,4-Dichloroaniline	95761	307C
3,5-Dichloroaniline	626437	308A
N,N-Diethylaniline	91667	308B
2,6-Diethylaniline	579668	308C

3-Dimethylaminophenol	99070	309A
N,N-Dimethylaniline	121697	309B
2,3-Dimethylaniline	87592	309C
2,4-Dimethylaniline	95681	310A
2,6-Dimethylaniline	87627	310B
3,4-Dimethylaniline	95647	310C
N,N-Dimethyl-m-toluidine	121722	311A
N,N-Dimethyl-p-toluidine	99978	311B
Diphenylamine	122394	311C
N-Ethylaniline	103695	312A
2-Ethylaniline	578541	312B
N-Ethyl-N-methylaniline	613978	312C
N-Ethyl-o-toluidine	94688	313A
3-Fluoroaniline	372190	313B
4-Fluoroaniline	371404	313C
2-Iodoaniline	615430	314A
3-Iodoaniline	626017	314B
4-Iodoaniline	540374	314C
N-Methylaniline	100618	315A
2-Methylmercaptoaniline	2987533	315B
N-Methyl-N-phenylbenzylamine		315C
N-Phenylbenzylamine	103322	316A
o-Toluidine	95534	316B
m-Toluidine	108441	316C
Tribromoaniline		317A
2,4,6-Tribromoaniline	147820	317B
2,4,5-Trichloroaniline	636306	317C
2,4,6-Trichloroaniline	634935	318A
2,4,6-Trimethylaniline	88051	318B
Triphenylamine	603349	318C

23.2 Phenylenediamines

N,N-Diethyl-1,4-phenylenediamine	93050	319A
1,2-Phenylenediamine	95545	319B
1,3-Phenylenediamine	108452	319C
1,4-Phenylenediamine	106503	320A
Phenylhydrazine	100630	320B

23.3 Multiple Ring Anilines

2-Aminofluorene	153786	320C
2-Benzylaniline, N-Benzylaniline	28059645	321A
N,N-Dimethyl-1-naphthylamine	86566	321B
N-Ethyl-1-naphthylamine	118445	321C

23.4 Aryl-aliphatic Amines

2-Amino-1-phenylethanol	7568936	322A
2-Aminodiphenylamine	534850	322B
4-Aminodiphenylamine	101542	322C
α -Aminodiphenylmethane	91009	323A
Benzylamine	100469	323B
N-Benzylideneaniline	538512	323C
N-Benzylmethylamine	103673	324A
2-(4-Chlorophenyl)ethylamine	156412	324B
Dibenzylamine	103491	324C
3,4-Dimethoxybenzylamine		325A
N,N-Dimethylbenzylamine	103833	325B
2-Methoxyphenethylamine	2045796	325C
4-Methoxyphenethylamine	55812	326A
α -Methylbenzylamine	618360	326B
1-Naphthylamine		326C
Phenethylamine	64040	327A
4-Phenylbutylamine	13214669	327B
L-1-Phenylethylamine	64040	327C
DL-1-Phenyl-ethylamine	3886699	328A
Tribenzylamine	620406	328B

23.5 Heterocyclic

1,2,3,4-Tetrahydroisoquinoline	91214	328C
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24 Aromatic Nitro and Nitroso Compounds

24.1 Nitroso

N,N-Dimethyl-4-nitrosoaniline	138896	329A
2-Nitroso-1-naphthol	132536	329B
N'-Nitrosoabasine		329C
N-Nitrosoatabine		330A
4-Nitroso-N,N-diethylaniline	120229	330B
4-Nitrosophenol	104916	330C

24.2 Ring Nitro

1-Chloro-2,4-dinitrobenzene	97007	331A
4-Chloro-2-nitroaniline	89634	331B
1-Chloro-2-nitrobenzene	88733	331C
4-Chloro-2-nitrophenol	89645	332A
1-Chloro-3,4-dinitrobenzene	610402	332B
4-Chloro-3-nitroaniline	635223	332C
1-Chloro-3-nitrobenzene	121733	333A
2-Chloro-4-nitrotoluene	121868	333B
4-Chloronitrobenzene, 1-Chloro-4-nitrobenzene	100005	333C
2,6-Dibromo-4-nitrophenol	99285	334A
2,3-Dichloronitrobenzene	3209221	334B
3,4-Dichloronitrobenzene	99547	334C
3,5-Dichloronitrobenzene	618622	335A
1,5-Difluoro-2,4-dinitrobenzene	327924	335B
2,6-Dinitro-4-methylphenol		335C
2,4-Dinitroaniline	97029	336A
2,6-Dinitroaniline	606224	336B
3,5-Dinitroaniline,	618871	336C
1,2-Dinitrobenzene	528290	337A
1,3-Dinitrobenzene	99650	337B
3,5-Dinitrobenzoyl chloride	99332	337C
2,4-Dinitrofluorobenzene	70348	338A
2,4-Dinitrophenol	51285	338B
2,5-Dinitrophenol	329715	338C

2,6-Dinitrophenol		339A
2,4-Dinitrophenyl hydrazine	1567891	339B
2,4-Dinitrotoluene	121142	339C
2,6-Dinitrotoluene	606202	340A
1-Iodo-2-nitrobenzene	609734	340B
Methyl parathion	298000	340C
2-Methyl-4-nitroaniline	99525	341A
2-Nitroaniline	88744	341B
3-Nitroaniline	99092	341C
4-Nitroaniline	100016	342A
Nitrobenzene	98953	342B
N-Nitrobenzenesulfonyl chloride	98748	342C
4-Nitrobenzyl chloride	100141	343A
4-Nitrobenzylalcohol	619738	343B
3-Nitrochlorobenzene		343C
3-Nitrodimethylaniline, N,N-Dimethyl-3-nitroaniline	619318	344A
4-Nitrodiphenylamine	836306	344B
1-Nitronaphthalene	86577	344C
2-Nitrophenol	88755	345A
3-Nitrophenol	554847	345B
4-Nitrophenol	100027	345C
2-Nitrotoluene	88722	346A
3-Nitrotoluene	99081	346B
4-Nitrotoluene	99990	346C
Parathion	56382	347A
1,3,5-Trinitrobenzene	99354	347B

25 Aromatic Ketones

25.1 Unconjugated

1,1-Diphenylacetone	781351	349A
1,3-Diphenylacetone	102045	349B
Phenylacetone	103797	349C
trans-4-Phenyl-3-buten-2-one	122576	350A
Phenyl-2-propanone		350B

25.2 Aryl-alkyl

2'-Acetonaphthone	93083	350C
Acetophenone	98862	351A
2-Bromo-2'-acetonaphthone	613547	351B
2-Bromoacetophenone	70111	351C
2'-Bromoacetophenone	2142690	352A
4'-Bromoacetophenone	99901	352B
2-Chloroacetophenone	532274	352C
4'-Chloroacetophenone	99912	353A
Deoxybenzoin	451401	353B
2,4'-Dibromoacetophenone	99730	353C
4,4-Diphenylcyclohexenone	4240859	354A
Diphenylcyclopropanone	886384	354B
4-Fluoroacetophenone	403429	354C
Isobutyrophenone	611701	355A
4'-Methoxyacetophenone	100061	355B
Propiophenone	93550	355C
α -Tetralone, 3,4-Dihydro-1(2H) naphthalenone	529340	356A
2,3,4-Trichloroacetophenone	13608872	356B

25.3 Hydroxy-aryl-alkyl

Acetovanillone	498022	356C
2',4'-Dihydroxyacetophenone	89849	357A
2'-Hydroxyacetophenone	118934	357B
4-Hydroxyacetophenone	99934	357C

25.4 Alkoxy, Amino or Nitro-aryl-alkyl

3'-Aminoacetophenone	99036	358A
4-Aminoacetophenone	99923	358B
2-Bromo-4'-methoxyacetophenone	2632135	358C
2-Bromo-4'-nitroacetophenone	99810	359A

25.6 Diketones

1-Benzoylacetone	93914	359B
Chalcone	614471	359C

25.7 Diaryl and Polycyclic

2-Aminobenzophenone, 2-Benzoylaniline	2835770	360A
Anthrone	90448	360B
Benzil	134816	360C
Benzophenone	119619	361A
4-Bromobenzophenone	90904	361B
2-Bromo-p-phenylacetophenone	135739	361C
2-Chloro-5-nitrobenzophenone	34052374	362A
4-Chlorobenzophenone	134850	362B
9-Fluorenone	486259	362C
4-Methylbenzophenone	134849	363A

25.8 Chromanones Chromones Flavanones, Flavones

Anthraquinon	84651	363B
2-Chloroanthraquinone	131099	363C
1,2-Naphthoquinone	524425	364A
1-Nitro-anthraquinone		364B
Quinhydrone	3919222	364C
Thioxanthen-9-one	492228	365A
Xanthen-9-one, Xanthone	90471	365B

26 Aromatic Aldehydes

26.1 Cinnamaldehydes

Cinnamaldehyde, trans-3-Phenyl-2-propenal	14371109	367A
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26.2 Other Conjugated

o-Anisaldehyde, 2-Methoxybenzaldehyde	135024	367B
m-Anisaldehyde, 3-Methoxybenzaldehyde	591311	367C
p-Anisaldehyde, 4-Methoxybenzaldehyde	123115	368A
9-Anthraldehyde	642319	368B
Benzaldehyde	100527	368C
2-Bromobenzaldehyde	6630337	369A
2-Chlorobenzaldehyde	89985	369B
4-Chlorobenzaldehyde	104881	369C
2,4-Dichlorobenzaldehyde	874420	370A
2,4-Dihydroxybenzaldehyde	95012	370B
3,4-Dihydroxybenzaldehyde	139855	370C

2,4-Dimethoxybenzaldehyde	613456	371A
2,5-Dimethoxybenzaldehyde	93027	371B
3,4-Dimethoxybenzaldehyde	120149	371C
3,5-Dimethoxybenzaldehyde	7311344	372A
4-Dimethylamino)benzaldehyde	100107	372B
2,4-Dinitrobenzaldehyde	528756	372C
3-Ethoxy-2-hydroxybenzaldehyde		373A
3-Ethoxy-4-hydroxybenzaldehyde		373B
2-Ethoxybenzaldehyde	613694	373C
2-Hydroxy-1-naphthaldehyde	708065	374A
4-Hydroxy-3,5-dimethoxy-benzaldehyde	134963	374B
3-Hydroxy-4-methoxy benzaldehyde, Isovanilin	621590	374C
3-Hydroxy-4-nitrobenzaldehyde	704132	375A
4-Hydroxybenzaldehyde	123080	375B
1-Naphthaldehyde	66773	375C
2-Naphthaldehyde	66999	376A
2-Nitrobenzaldehyde	552896	376B
3-Nitrobenzaldehyde	99616	376C
4-Nitrobenzaldehyde	555168	377A
Phthaldialdehyde, Phthalic dicarboxaldehyde	643798	377B
Salicylaldehyde	90028	377C
2,3,6-Trichlorobenzaldehyde	4659476	378A
Vanillin	121335	378B

27 Aromatic Carboxylic Acids

27.1 Unconjugated

4-Chlorobenzoic acid	74113	379A
4-Methoxyphenylacetic acid	104018	379B

27.2 Cinnamic Acids

trans-4-Hydroxy-3-methoxycinnamic acid	537984	379C
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27.3 Other Conjugated

2-Amino-3-methylbenzoic acid	4389451	380A
3-Aminobenzoic acid	99058	380B
4-Aminobenzoic acid	150130	380C
2-Chlorobenzoic acid	118912	381A
2,4-Dichlorobenzoic acid	50840	381B
3,5-Dinitrobenzoic acid	99343	381C
2-Phthalic acid	88993	382A
3-(4-Hydroxyphenyl) propionic acid	501973	382B
2-Iodobenzoic acid	88675	382C
3-Iodobenzoic acid	618519	383A

28 Aromatic Esters and Lactones

28.1 Unconjugated

Benzyl acetate	140114	385A
Diethyl phenylmalonate	83136	385B
Ethyl 3-phenylpropionate	2021285	385C
Ethyl DL-mandelate	4358887	386A
Ethyl phenylacetate	101973	386B
3-Hydroxyphenyl acetate		386C
3-Phenylpropyl formate	104643	387A

28.2 β -Keto

Ethyl benzoylacetate	94020	387B
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28.3 Other Conjugated

Benzyl benzoate	120514	387C
Benzyl salicylate	118581	388A
Dibutyl phthalate	84742	388B
Diethyl phthalate	84662	388C
Dimethyl phthalate	131113	389A
Dioctyl phthalate	117817	389B
Ethyl-4-aminobenzoate	94097	389C
Ethyl benzoate	93890	390A
Ethyl salicylate	118616	390B
Isoamyl benzoate	94462	390C

	Isobutyl salicylate	87194	391A
	Methyl 4-hydroxybenzoate	99763	391B
	Methyl anthranilate	134203	391C
	Methyl benzoate	93583	392A
	Methyl salicylate	119368	392B
	Methyl-3-nitrobenzoate	618951	392C
	Phenyl benzoate	93992	393A
	Propyl-4-hydroxybenzoate	94133	393B
	tert-Butyl peroxybenzoate	614459	393C
28.4 Phenyl Esters			
	Diethyl 2-ethyl-2-phenylmalonate	76675	394A
	Phenyl acetate	122792	394B
	Phenyl salicylate	118558	394C
28.5 Carbonates			
	tert-Butyl phenyl carbonate	6627890	395A
	Diphenyl carbonate	102090	395B
28.6 Lactones			
	Phthalide, 3H-Isobenzofuran-1-one	87412	395C
29 Aromatic Acid Halides			
29.1 Unconjugated			
	9-Fluorenylmethyl chloroformate	28920436	397A
29.2 Conjugated			
	Benzoyl chloride	98884	397B
	3,5-Dinitrobenzoyl chloride	99332	397C
	Phthaloyl dichloride	88959	398A
29.3 Chloroformates			
	Phenyl chloroformate	1885149	398B

30 Aromatic Amides

30.1 N-Phenyl Amides and Unconjugated

3-Acetamidophenol	621421	399A
Acetanilide	103844	399B
n-Butylacetanilide		399C
4'-Chloroacetanilide	39037	400A
Formanilide	103708	400B
N-Methylacetanilide		400C
N-Methylformanilide	93618	401A

30.2 Conjugated

Benzamide	55210	401B
N-Benzoyl-N-phenylhydroxylamine	304881	401C
2-Nitroacetanilide	552329	402A
3-Nitroacetanilide		402B
4-Nitroacetanilide	104041	402C
Salicylamide, 2-Hydroxybenzamide	65452	403A

30.3 Thioamides and Thioureas etc.

Phenyl thiourea	103855	403B
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30.4 Imides

N-(2-Bromoethyl)phthalimide	574981	403C
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30.5 Hydrazides

Benzoylhydrazine	613945	404A
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30.6 Amidines

sym-Diphenylguanidine	102067	404B
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31 Aromatic Nitriles and Cumulated Double Bonds

31.1 Unconjugated Nitriles

Benzyl cyanide, Phenylacetone nitrile	140294	405A
2-Cyanonaphthalene, 2-Naphthonitrile	613467	405B
Diphenylacetone nitrile	86293	405C
4-Nitrophenylacetone nitrile, 4-Nitrobenzyl cyanide	555215	406A

31.2 Conjugated Nitriles

3-Aminobenzonitrile	2237301	406B
4-Aminobenzonitrile	873745	406C
Benzonitrile	100470	407A
2-Chlorobenzonitrile	873325	407B
3-Chlorobenzonitrile	766847	407C
4-Chlorobenzonitrile	623030	408A
2,6-Dichlorobenzonitrile	1194656	408B
1-Naphthonitrile	86533	408C
2-Tolunitrile	529191	409A
3-Tolunitrile	620224	409B
4-Tolunitrile	104858	409C

31.3 Isothiocyanates and Isocyanates

Phenyl isothiocyanate	103720	410A
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32 Aromatic Sulfur-Oxygen Compounds

32.1 Sulfonatesters

Cyanomethyl benzenesulfonate	10531132	411A
Ethyl p-toluenesulfonate	80400	411B
N-Methyl-N-nitroso-p-toluenesulfonamide	80115	411C

32.2 Sulfonyl Halides

Benzenesulfonyl chloride	98099	412A
4-Nitrobenzene sulfonyl chloride	98748	412B
Toluene-4-sulfonyl chloride	98599	412C
α -Toluenesulfonyl fluoride	329986	413A

32.3 Sulfoxides

Dibenzyl sulfoxide, Benzylsulfoxide	621089	413B
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32.4 Sulfones

Phenyl sulfone, Diphenyl sulfone	127639	413C
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33 Aromatic Phosphorus Compounds

33.1 Phosphites, Phophonites etc.

Diphenyl phosphite	4712554	415A
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34 5-Membered Aromatic Heterocycles

34.1 Pyrroles

2-Acetylpyrrole	1072839	417A
1-Methylpyrrole	96548	417B
Pyrrole	109977	417C

34.2 Furans

Carbofuran	1563662	418A
2,5-Dimethylfuran	625865	418B
2-Furaldehyde, Furfural	98011	418C
Furan	110009	419A
Furfuryl alcohol	98000	419B
2-Furoyl chloride	527695	419C
2-Methylfuran, Silvan	534225	420A

34.3 Thiophenes

2-Bromothiophene	1003094	420B
Cyclopropyl 2-thienyl ketone	6193471	420C
Thiophene	110021	421A

34.4 Pyrazoles

3,5-Dimethylpyrazole	67516	421B
3-Methyl-1-phenyl-2-pyrazolin-5-one	89258	421C

34.5 Imidazoles

N-n-Butylimidazole	6316421	422A
1,1-Carbonyldiimidazole	530621	422B
5-Chloro-1-phenyl-1H-tetrazole	14210254	422C
Imidazole	288324	423A
2-Mercapto-1-methylimidazole	60560	423B
2-Methylimidazole	693981	423C

34.6 Oxazoles and Oxadiazoles

2,5-Diphenyloxazole	92717	424A
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35 5-Membered Fused Aromatic Heterocycles

35.1 Indoles

3-Acetylintole	703800	425A
Indol-3-aldehyde	487898	425B
Indole	120729	425C
2-Methylindole	95205	426A
3-Methylindole	83341	426B

35.2 Carbazoles

3-Amino-9-ethylcarbazole	132312	426C
Carbazole	86748	427A

35.3 Benzofurans

7-Chloro-4-nitrobenzofuran		427B
Dibenzofuran	132649	427C

35.4 Benzimidazoles

Benzimidazole	51172	428A
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35.5 Benzothiazoles

Benzothiazole	95169	428B
2-Mercaptobenzothiazole	149304	428C
2-Methylbenzothiazole	120752	429A

36 6-Membered Aromatic Heterocycles

36.1 Pyridines

2-Acetylpyridine	1122629	431A
3-Acetylpyridine	350038	431B
2-Aminopyridine	504290	431C
3-Aminopyridine	462088	432A
2-Bromopyridine	109046	432B
2-Chloropyridine	109091	432C
3-Chloropyridine	626608	433A
N-Chlorosuccinimide	128096	433B
2,4,6-Collidine	108758	433C
2-Cyanopyridine	100709	434A
3-Cyanopyridine	100549	434B
4-Cyanopyridine	100481	434C

2,6-Diaminopyridine	141866	435A
4-Dimethylaminopyridine	1122583	435B
2-Ethylpyridine	100710	435C
4-Ethylpyridine	536754	436A
2-Fluoropyridine	372485	436B
2-Hydroxypyridine, 2-Pyridinol	142085	436C
2,3-Lutidine, 2,3-Dimethylpyridine	583619	437A
2,4-Lutidine, 2,4-Dimethylpyridine	108474	437B
2,6-Lutidine, 2,6-Dimethylpyridine	108485	437C
3,4-Lutidine, 3,4-Dimethylpyridine	583584	438A
3,5-Lutidine, 3,5-Dimethylpyridine	591220	438B
4-(N-Methyl-N-nitrosoamino)-1-(3-pyridyl)-1-butanone	64091914	438C
Nicotinamide, Nicotine acid amide	98920	439A
(-)-Nicotine	54115	439B
4-(4-Nitrobenzyl)-pyridine	1083483	439C
N-Nitrosornicotine	53759221	440A
5-Nonylpyridine		440B
2-Picoline	109068	440C
3-Picoline	108996	441A
4-Picoline	108894	441B
Pyridine	110861	441C
Pyridinium bromide, Pyridinium tribromide	39416483	442A
1-(2-Pyridyl)piperazine	34803662	442B
4-Pyrrolidinopyridine	2456817	442C

37 6-Membered Fused Aromatic Heterocycles

37.1 Quinolines

8-Acetoxyquinoline		443A
7,8-Benzoquinoline	230273	443B
8-Hydroxyquinoline, 8-Quinolinol	148243	443C
6-Methoxyquinoline	5263876	444A
3-Methylquinoline	612588	444B
4-Methyl-quinoline, Lepidine	491350	444C
Quinoline	91225	445A

37.2 Acridines

Acridine	260946	445B
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37.3 Isoquinolines

Isoquinoline	119653	445C
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37.4 Phthlazines and Quinoxalines

Phenacetin, 1-Acetamino-4-ethoxy-benzene, 4-Acetophenetidide	62442	446A
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Phenazone, Antipyrine	60800	446B
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39 Oximes

α -Benzoin oxime, Cupron	441383	447A
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2,3-Butanedione monoxime	57716	447B
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2-Butanone oxime	96297	447C
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40 Alkynes

1-Hexyne	635687	449A
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2-Methyl-3-butyn-2-ol	115195	449B
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2-Pentyne	627214	449C
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Phenylpropionic acid	637445	450A
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Propargyl alcohol	107197	450B
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42 Silanes

42.1 Non Aromatic

Amyltriethoxysilane	2761242	451A
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Bis(trimethylsilyl)trifluoroacetamide	25561302	451B
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Chlorotrimethylsilane	75774	451C
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Diacetylsilane		452A
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Dichloro-dimethylsilane	75785	452B
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Diethoxy-dimethylsilane		452C
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Diisoamyl dimethylsilane		453A
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Ditert-butoxy-di-ethoxysilane		453B
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Heptoxy trimethylsilane		453C
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Hexamethyldisilane	1450142	454B
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1,1,1,3,3,3Hexamethyldisilazane	999973	454C
-		
Hexamethyldisiloxane	107460	455A
Octamethyltetrasiloxane	556672	455B
Tetraethyl orthosilicate	78104	455C
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Tetraisobutoxysilane		456B
Tetramethoxysilane		456C
Tetrapropyl silane		457A
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Triethyl triethoxy disiloxane		457C
Triisobutoxy hydroxy silane		458A
Trimethyl allylsilane	762721	458B
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Trimethyl-pentoxysilane		459A

42.2 Aromatic

Chlorodimethylphenyl silane	768332	459B
Di-(4-hydroxy-3-methyl-phenyl)- -dihydroxysilane		459C
Dichloro-diphenoxysilane		460A
Diethoxy-di-(4-hydroxy-3- methyl-phenoxy)silane		460B
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Dimethyl diphenylsilane	778245	462A
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43 Boranes

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Thionyl chloride	7719097	481A
Water	7732185	481B

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Azobenzene	103333	483A
α -Endosulfan	33213659	483B
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108430	3-Chlorophenol	259C
108441	m-Toluidine	316C
108452	1,3-Phenylenediamine	319C
108463	Resorcinol	283C
108474	2,4-Lutidine, 2,4-Dimethylpyridine	437B
108485	2,6-Lutidine, 2,6-Dimethylpyridine	437C
108598	Dimethyl malonate	174A
108656	Propylene glycol methyl ether acetate	187A
108678	1,3,5-Trimethylbenzene	220C
108689	3,5-Dimethylphenol	268C
108736	1,3,5-Trihydroxybenzene	282C
108758	2,4,6-Collidine	433C
108838	2,6-Dimethyl-4-heptanone	126B
108850	Cyclohexyl bromide	44C
108861	Bromobenzene	230B
108883	Toluene	220B
108894	4-Picoline	441B
108907	Chlorobenzene	230C
108918	Cyclohexylamine	108C
108930	Cyclohexanol	63B
108941	Cyclohexanone	140C
108952	Phenol	277C
108985	Thiophenol	296B
108996	3-Picoline	441A
109013	1-Methylpiperazine	116C
109024	4-Methylmorpholine	116B

109046	2-Bromopyridine	432B
109068	2-Picoline	440C
109079	2-Methylpiperazine	117A
109091	2-Chloropyridine	432C
109499	5-Hexen-2-one	133C
109557	3-Dimethylaminopropylamine	106B
109604	Propyl acetate	170C
109637	Boron trifluoride etherate, Boron trifluoride diethyl ether	475A
109648	1,3-Dibromopropane	35B
109659	1-Bromobutane	21A
109660	Pentane	2B
109682	2-Pentene	7B
109693	1-Chlorobutane	24C
109706	1-Bromo-3-chloropropane	32C
109739	Butylamine	95B
109740	Butyronitrile	206C
109762	1,3-Diaminopropane	100A
109795	1-Butanethiol	87A
109808	1,3-Propanedithiol	90C
109864	2-Methoxyethanol	81B
109875	Dimethoxymethane	76C
109897	Diethylamine	101C
109922	Ethyl vinyl ether	72C
109944	Ethyl formate	165B
109977	Pyrrole	417C
109999	Tetrahydrofuran	85A
110009	Furan	419A
110021	Thiophene	421A
110032	2,5-Dimethyl-2,5-hexanediol	57A
110123	5-Methyl-2-hexanone	129C
110134	Acetylacetone	137C
110189	N,N,N,N-Tetramethylethylenediamine	108A
110190	Isobutyl acetate	167C
110430	2-Heptanone	127A
110452	Isoamyl formate	167B

110496	2-Methoxyethyl acetate	186C
110521	1,4-Dibromobutane	33B
110532	1-Bromopentane	23C
110543	Hexane	1C
110565	1,4-Dichlorobutane	35C
110587	Amylamine	95A
110623	Pentanal	148B
110634	1,4-Butanediol	56B
110805	2-Ethoxyethanol	80A
110827	Cyclohexane	15C
110838	Cyclohexene	17B
110861	Pyridine	441C
110872	3,4-Dihydro-2H- pyran	83B
110894	Piperidine	118B
110918	Morpholine	118A
110930	2-Methyl-2-hepten-6-one	134B
111115	Methyl caprylate	169B
111137	2-Octanone	131A
111148	Heptanoic acid	156A
111159	2-Ethoxyethyl acetate	185C
111240	1,5-Dibromopentane	35A
111251	1-Bromohexane	22B
111262	Hexylamine	97C
111273	Hexyl alcohol	49C
111295	1,5-Pentandiol	58C
111308	Glutaric dialdehyde	146A
111342	Butyl vinyl ether	74B
111353	3-Ethoxy-1-propanol	81A
111422	Diethanolamine	112B
111499	Hexamethyleneimine	115C
111659	Octane	2A
111660	1-Octene	7A
111682	Heptylamine	97B
111706	1-Heptanol	49B
111717	Heptaldehyde	146B

111762	2-Butoxyethanol	79A
111784	Cyclooctadiene	17C
111831	1-Bromooctane	23B
111853	1-Chlorooctane	26A
111864	Octylamine	99A
111875	1-Octanol	51B
111900	2-,2-Ethoxyethoxyethanol	80B
111922	Dibutylamine	101B
111966	2-Methoxyethyl ether	73C
112072	2-Butoxyethyl acetate	183B
112152	2-2-Ethoxyethoxyethyl acetate	185B
112243	Triethylenetetramine	108B
112298	1-Bromodecane	21B
112301	Decyl alcohol	47C
112312	Decyl aldehyde	145C
112345	2-,2-Butoxyethoxyethanol	79B
112414	1-Dodecene	4B
112572	Tetraethylenepentamine	107C
112889	Octadecene	6B
115195	2-Methyl-3-butyn-2-ol	449B
115208	Trichloroethanol	69C
115800	Triethyl orthopropionate	78C
116093	Acetol, Hydroxy-2-propanone	136A
116165	Hexachloroacetone	135C
117817	Dioctyl phthalate	389B
118445	N-Ethyl-1-naphthylamine	321C
118558	Phenyl salicylate	394C
118581	Benzyl salicylate	388A
118616	Ethyl salicylate	390B
118796	2,4,6-Tribromophenol	279A
118912	2-Chlorobenzoic acid	381A
118934	2'-Hydroxyacetophenone	357B
119368	Methyl salicylate	392B
119539	2-Hydroxy-1,2-diphenyl-ethanone	287A
119619	Benzophenone	361A

119653	Isoquinoline	445C
120127	Anthracene	225A
120149	3,4-Dimethoxybenzaldehyde	371C
120229	4-Nitroso-N,N-diethylaniline	330B
120514	Benzyl benzoate	387C
120581	Isosafrole	248C
120729	Indole	425C
120752	2-Methylbenzothiazole	429A
120809	Catechol	281B
120821	1,2,4-Trichlorobenzene	240C
120832	2,4-Dichlorophenol	263C
120923	Cyclopentanone	141B
120945	1-Methylpyrrolidine	117C
121142	2,4-Dinitrotoluene	339C
121335	Vanillin	378B
121448	Triethylamine	105A
121459	Trimethyl phosphite	213C
121697	N,N-Dimethylaniline	309B
121722	N,N-Dimethyl-m-toluidine	311A
121733	1-Chloro-3-nitrobenzene	333A
121868	2-Chloro-4-nitrotoluene	333B
122316	1,1,3,3-Tetraethoxypropane	77C
122394	Diphenylamine	311C
122510	Triethyl orthoformate	78B
122521	Triethyl phosphite	214B
122576	trans-4-Phenyl-3-butene-2-one	350A
122792	Phenyl acetate	394B
122974	3-Phenyl-1-propanol	293C
122996	2-Phenoxyethanol	293B
123079	4-Ethylphenol	270C
123080	4-Hydroxybenzaldehyde	375B
123115	p-Anisaldehyde, 4-Methoxybenzaldehyde	368A
123193	4-Heptanone	127C
123251	Diethyl succinate	173C
123308	4-Aminophenol	300C

123319	1,4-Dihydroxybenzene, Hydroquinone	284A
123353	Myrcene	14C
123386	Propionaldehyde	148C
123397	N-Methylformamid	198C
123422	4-Hydroxy-4-methyl-2-pentanone	136C
123513	3-Methyl-1-butanol	50C
123546	2,4-Pentanedione	138C
123626	Propionic anhydride	192B
123728	Butanal	145B
123739	Crotonaldehyde	149C
123751	Pyrrolidine	118C
123864	Butyl acetate	163C
123911	1,4-Dioxane	84A
123922	Isoamyl acetate	167A
124027	Diallylamine	110B
124094	1,6-Hexanediamine	100C
124118	1-Nonene	6A
124130	Octyl aldehyde	148A
124185	Decane	1A
124196	Nonyl aldehyde	147C
124209	Spermidine	107B
124630	Methanesulfonyl chloride	212B
124685	2-Amino-2-methyl-1-propanol	111B
126738	Tributyl phosphate	216A
126818	Dimedone	141C
127184	Tetrachloroethylene	43B
127195	N,N-Dimethylacetamide	199B
127639	Phenyl sulfone, Diphenyl sulfone	413C
128096	N-Chlorosuccinimide	433B
128392	2,6-Di-tert-butylphenol	269C
128530	N-Ethylmaleimide	202C
129000	Pyren	228C
131099	2-Chloroanthraquinone	363C
131113	Dimethyl phthalate	389A
132312	3-Amino-9-ethylcarbazole	426C

132536	2-Nitroso-1-naphthol	329B
132649	Dibenzofuran	427C
132865	1,3-Dihydroxynaphthalene	286A
133084	Diethyl butylmalonate	172A
133131	Diethyl ethylmalonate	172C
133539	2,4-Dichloro-3,5-dimethylphenol	262C
134203	Methyl anthranilate	391C
134816	Benzil	360C
134849	4-Methylbenzophenone	363A
134850	4-Chlorobenzophenone	362B
134963	4-Hydroxy-3,5-dimethoxy-benzaldehyde	374B
135024	o-Anisaldehyde, 2-Methoxybenzaldehyde	367B
135193	2-Naphthol	288A
135739	2-Bromo-p-phenylacetophenone	361C
137326	(+/-)-2-Methyl-1-butanol	50B
137439	Cyclopentyl bromide	45B
138863	Dipentene	18B
138896	N,N-Dimethyl-4-nitrosoaniline	329A
138896	p-Nitrosodimethylaniline, N,N-Dimethyl-4-nitrosoaniline	338C
139855	3,4-Dihydroxybenzaldehyde	370C
140114	Benzyl acetate	385A
140294	Benzyl cyanide, Phenylacetonitrile	405A
140885	Ethyl acrylate	178B
141059	Diethyl maleate	177C
141286	Diethyl adipate	171C
141322	Butyl acrylate	177A
141435	Ethanolamine	114C
141786	Ethyl acetate	165A
141797	Mesityl oxide	134A
141866	2,6-Diaminopyridine	435A
141979	Ethyl acetoacetate	188C
142085	2-Hydroxypyridine, 2-Pyridinol	436C
142621	Hexanoic acid	156B
142825	Heptane	1B
142847	Dipropylamine	103B

142961	Butyl ether	71A
143157	1-Bromododecane	21C
143168	Dihexylamine	102A
143168	Dimethylamine	103A
144489	Iodoacetamide	197A
144796	Diphenylmethylchlorosilane	463A
147820	2,4,6-Tribromoaniline	317B
147933	o-Mercaptobenzoic acid	296A
148243	8-Hydroxyquinoline, 8-Quinolinol	443C
149304	2-Mercaptobenzothiazole	428C
149575	2-Ethylhexanoic acid	155B
150130	4-Aminobenzoic acid	380C
150607	Benzyl disulfide	296C
150618	1,2-Dianilinoethane	306A
150765	4-Methoxyphenol	274B
150787	1,4-Dimethoxybenzene	247B
151100	1,3-Dimethoxybenzene	247A
151677	2-Bromo-2-chloro-1,1,1-trifluoroethane	37B
153786	2-Aminofluorene	320C
156412	2-(4-Chlorophenyl)ethylamine	324B
156605	1,2-Dichloro-ethylene	42C
156876	3-Amino-1-propanol	111A
208968	Acenaphthylene	224C
230273	7,8-Benzoquinoline	443B
260946	Acridine	445B
281232	Adamantane	15B
288324	Imidazole	423A
298000	Methyl parathion	340C
304881	N-Benzoyl-N-phenylhydroxylamine	401C
327924	1,5-Difluoro-2,4-dinitrobenzene	335B
329715	2,5-Dinitrophenol	338C
329986	α -Toluenesulfonyl fluoride	413A
336594	Heptafluorobutyric anhydride	191C
345357	2-Fluorobenzyl chloride	233A
350038	3-Acetylpyridine	431B

352932	Ethyl sulfide	92C
367124	2-Fluorophenol	271B
371404	4-Fluoroaniline	313C
371415	4-Fluorophenol	272A
371620	2-Fluoroethanol	69A
372190	3-Fluoroaniline	313B
372203	3-Fluorophenol	271C
372485	2-Fluoropyridine	436B
375019	Heptafluoro-1-butanol	69B
375224	Heptafluorobutyric acid	160B
402437	4-Bromobenzotrifluoride	237A
403429	4-Fluoroacetophenone	354C
407250	Trifluoroacetic acid anhydride	192C
441383	α -Benzoin oxime, Cupron	447A
451401	Deoxybenzoin	353B
452868	4-Methylcatechol	282A
455141	4-Aminobenzotrifluoride	299C
457681	Bis-(4-fluorophenyl)-methane	244A
462066	Fluorobenzene	231A
462088	3-Aminopyridine	432A
462953	Diethoxymethane	76B
470826	Cineole	82B
486259	9-Fluorenone	362C
487030	2-Methyl-2-butenal	151B
487898	Indol-3-aldehyde	425B
488175	3-Methylcatechol	281C
491350	4-Methyl-quinoline, Lepidine	444C
492228	Thioxanthen-9-one	365A
493027	trans-Decahydronaphthalene	16A
496786	2,4,5-Trimethylphenol	281A
498000	4-Hydroxy-3-methoxybenzyl alcohol	291B
498022	Acetovanillone	356C
499752	Carvacrol	257A
501973	3-(4-Hydroxyphenyl) propionic acid	382B
502498	Cyclooctanone	141A

504201	Phorone	134C
504290	2-Aminopyridine	431C
505226	1,3-Dioxane	83C
505237	1,3-Dithiane	91C
507197	2-Bromo-2-methylpropane, tert-butylbromid	29C
507200	2-Chloro-2-methylpropane	30B
507700	Borneol	63A
509148	Tetranitromethane	123C
513382	1-Iodo-2-methylpropane, iso-Butyliodid	31B
513428	2-Methyl-2-propen-1-ol	62A
513859	2,3-Butanediol	56C
513860	3-Hydroxy-2-butanone	136B
513882	1,1-Dichloroacetone	135B
516121	N-Iodosuccinimide	138B
519733	Triphenylmethane	221C
519879	Acetyldiphenylamine	299A
524425	1,2-Naphthoquinone	364A
526738	1,2,3-Trimethylbenzene	221A
526750	2,3-Dimethylphenol	267A
527606	2,4,6-Trimethylphenol	280C
527695	2-Furoyl chloride	419C
528290	1,2-Dinitrobenzene	337A
528756	2,4-Dinitrobenzaldehyde	372C
529191	2-Tolunitrile	409A
529282	2-Iodoanisole	248A
529340	α -Tetralone, 3,4-Dihydro-1(2H) naphthalenone	356A
530621	1,1-Carbonyldiimidazole	422B
532274	2-Chloroacetophenone	352C
533584	2-Iodophenol	272C
534156	Acetaldehyde dimethyl acetal	75B
534225	2-Methylfuran, Silvan	420A
534850	2-Aminodiphenylamine	322B
535115	DL-2-Bromopropionic acid ethylester	181A
536754	4-Ethylpyridine	436A
536903	m-Anisidine	301C

537355	2,3,5,6-Tetramethylphenol	278B
537984	trans-4-Hydroxy-3-methoxycinnamic acid	379C
538512	N-Benzylideneaniline	323C
538681	Amylbenzene	217A
540374	4-Iodoaniline	314C
540512	2-Bromoethanol	66C
540545	1-Chloropropane	26B
540636	1,2-Etanditiol	88A
540841	2,2,4-Trimethylpentane	3B
540885	tert-Butyl acetate	164A
541311	Isoamylmercaptan	88C
541413	Ethyl chloroformate	194A
541855	5-Methyl-3-heptanone	129B
542187	Cyclohexyl chloride	45A
542552	Isobutyl formate	168A
542698	1-Iodobutane	26C
542767	3-Chloro-propionitrile	207B
543204	Succinyl chloride	194C
543271	Isobutyl chloroformate	194B
544105	1-Chlorohexane	25C
545062	Trichloroacetonitrile	208C
552329	2-Nitroacetanilide	402A
552896	2-Nitrobenzaldehyde	376B
553902	Dimethyl oxalate	174B
554007	2,4-Dichloroaniline	306C
554121	Methyl propionate	170A
554847	3-Nitrophenol	345B
555168	4-Nitrobenzaldehyde	377A
555215	4-Nitrophenylaceto nitrile, 4-Nitrobenzyl cyanid	406A
556672	Octamethyltetrasiloxane	455B
556821	3-Methyl-2-buten-1-ol	61C
557404	Allyl ether	74A
557664	Ethylamine hydrochloride	96C
563473	3-Chloro-2-methylpropene	42A
563780	2,3-Dimethyl-1-butene	8B

563791	2,3-Dimethyl-2-butene	8C
563804	3-Methyl-2-butanone	128C
565606	3-Methyl-2-pentanol	53B
565617	3-Methyl-2-pentanone	130B
565695	2-Methyl- 3- pentanone	130A
565800	2,4-Dimethyl-3-pentanone	126A
574981	N-(2-Bromoethyl)phthalimide	403C
575439	1,6-Dimethylnaphthalene	226A
576249	2,3-Dichlorophenol	263B
576261	2,6-Dimethylphenol	268A
578541	2-Ethylaniline	312B
578574	2-Bromoanisole	245C
579668	2,6-Diethylaniline	308C
582172	2,7-Dihydroxynaphthalene	286C
583584	3,4-Lutidine, 3,4-Dimethylpyridine	438A
583595	2-Methylcyclohexanol ?	65A
583619	2,3-Lutidine, 2,3-Dimethylpyridine	437A
583788	2,5-Dichlorophenol	264A
584021	3-Pentanol	54C
589151	4-Bromobenzyl bromide	234B
589388	3-Hexanone	128B
590670	1-Methylcyklohexanol	65B
591195	3-Bromoaniline	302C
591220	3,5-Lutidine, 3,5-Dimethylpyridine	438B
591242	3-Methylcyclohexanone	143B
591275	3-Aminophenol	300B
591311	m-Anisaldehyde, 3-Methoxybenzaldehyde	367C
591355	3,5-Dichlorophenol	265A
591504	Iodobenzene	231B
591764	2-Methylhexane	3C
591786	2-Hexanone	128A
592278	2-Methylheptane, (Isooctane)	3A
592416	1-Hexene	5B
592427	1,5-Hexadiene	13B
592438	2-Hexene	5C

592461	2,4-Hexadiene	13C
592767	1-Heptene	4C
594387	2-Iodo-2-methylbutane	31A
594423	Perchloromethyl mercaptan	90B
594650	2,2,2-Trichloroacetamide	198A
598561	N-Ethyldimethylamine	104B
598721	2-Bromopropionic acid	159B
600000	Ethyl-2-bromo-2-methylpropionate	183A
600077	2-Methylbutyric acid	157A
600362	2,4-Dimethyl-3-pentanol	52C
603349	Triphenylamine	318C
603690	Ethyl diacetoacetate	189A
606202	2,6-Dinitrotoluene	340A
606224	2,6-Dinitroaniline	336B
608311	2,6-Dichloroaniline	307B
608684	Dimethyl-L-tartrate	185A
608935	Pentachlorobenzene	239A
609029	Dimethyl methylmalonate	184C
609734	1-Iodo-2-nitrobenzene	340B
610402	1-Chloro-3,4-dinitrobenzene	332B
611109	Ethyl 2-oxocyclopentanecarboxylate	188B
611198	2-Chlorobenzyl chloride	232B
611701	Isobutyrophenone	355A
612588	3-Methylquinoline	444B
613456	2,4-Dimethoxybenzaldehyde	371A
613467	2-Cyanonaphthalene, 2-Naphthonitrile	405B
613547	2-Bromo-2'-acetoneaphthone	351B
613694	2-Ethoxybenzaldehyde	373C
613945	Benzoylhydrazine	404A
613978	N-Ethyl-N-methylaniline	312C
614459	tert-Butyl peroxybenzoate	393C
614471	Chalcone	359C
615430	2-Iodoaniline	314A
615576	2,4-Dibromoaniline	306B
615587	2,4-Dibromophenol	283A

616239	2,3-Dichloro-1-propanol	68B
617845	N,N-Diethylformamide	199A
617947	2-Phenyl-2-propanol	294B
618315	Benzal bromide	229A
618360	α -Methylbenzylamine	326B
618519	3-Iodobenzoic acid	383A
618622	3,5-Dichloronitrobenzene	335A
618871	3,5-Dinitroaniline	336C
618951	Methyl-3-nitrobenzoate	392C
619318	3-Nitrodimethylaniline, N,N-Dimethyl-3-nitroaniline	344A
619330	Chloroacetaldehyde diethyl acetal	76A
619738	4-Nitrobenzylalcohol	343B
620177	3-Ethylphenol	270B
620224	3-Tolunitrile	409B
620246	3-Hydroxybenzyl alcohol	292B
620406	Tribenzylamine	328B
621089	Dibenzyl sulfoxide, Benzylsulfoxide	413B
621421	3-Acetamidophenol	399A
621590	3-Hydroxy-4-methoxy benzaldehyde, Isovanilin	374C
621772	Tripentylamine	105C
623030	4-Chlorobenzonitrile	408A
623052	4-Hydroxybenzyl alcohol	291C
623256	α,α -Dichloro-p-xylene	236B
623427	Methyl butyrate	168C
623518	Ethyl 2-mercaptoacetate	187C
623734	Ethyl diazoacetate	208B
623916	Diethyl fumarate	177B
624317	4-Iodotoluene	236C
624497	Dimethyl fumarate	178A
624895	Ethyl methyl sulfide	92B
624920	Dimethyldisulfide	91B
625809	Isopropyl sulfide	93A
625865	2,5-Dimethylfuran	418B
625956	3-Iodotoluene	233C
626017	3-Iodoaniline	314B

626391	1,3,5-Tribromobenzene	240B
626437	3,5-Dichloroaniline	308A
626584	4-Methylpiperidine	117B
626608	3-Chloropyridine	433A
627134	Propyl nitrate	121C
627214	2-Pentyne	449C
627305	3-Chloro-1-propanol	67C
628057	1-Nitropentane	123A
628411	1,4-Cyclohexadiene	17A
628637	Amyl acetate	163B
629038	1,6-Dibromohexane	34A
629061	1-Chloroheptane	25B
629276	1-Iodoctane	27C
629732	1-Hexadecene	5A
632224	1,1,3,3-Tetramethylurea	201B
634935	2,4,6-Trichloroaniline	318A
635223	4-Chloro-3-nitroaniline	332C
635687	1-Hexyne	449A
636282	1,2,4,5-Tetrabromobenzene	239B
636306	2,4,5-Trichloroaniline	317C
637445	Phenylpropionic acid	450A
637592	1-Bromo-3-phenylpropane	230A
637887	1,4-Cyclohexanedione	140B
640197	Fluoroacetamide	196B
642319	9-Anthraldehyde	368B
643798	Phthaldialdehyde, Phthalic dicarboxaldehyde	377B
646071	4-Methyl-pentanoic acid	157B
683181	Dibutyltin dichloride	478A
685278	N-Methylbis(trifluoroacetamide)	198B
691372	4-Methyl-1-pentene	10A
693130	1,3-Diisopropylcarbodiimide	209A
693549	2-Decanone	125C
693583	1-Bromononane	22C
693583	1-Bromononane	23A
693890	1-Methyl-1-cyclopentene	19A

693981	2-Methylimidazole	423C
694837	1,2-Diaminocyclohexane	109A
696628	4-Iodoanisole	248B
697825	2,3,5-Trimethylphenol	280B
703800	3-Acetylimidole	425A
704132	3-Hydroxy-4-nitrobenzaldehyde	375A
708065	2-Hydroxy-1-naphthaldehyde	374A
760203	3-Methyl-1-pentene	10C
760214	2-Ethyl-1-butene	9A
760930	Methacrylic anhydride	192A
761659	N,N-Dibutylformamide	196A
762049	Diethyl phosphite	213B
762721	Trimethyl allylsilane	458B
762754	tert-Butyl formate	164C
763291	2-Methyl-1-pentene	10B
763699	Ethyl 3-ethoxypropionate	186A
764136	2,5-Dimethyl-2,4-hexadiene	12B
765093	1-Bromotridecane	24B
766847	3-Chlorobenzonitrile	407C
768332	Chlorodimethylphenyl silane	459B
768661	2,2,6,6-Tetramethylpiperidine	119A
768901	1-Bromoadamantane	44B
769426	1,3-Dimethylbarbituric acid	202A
776749	Bromodiphenylmethane	242B
778245	Dimethyl diphenylsilane	462A
780698	Phenyltriethoxysilane	463C
781351	1,1-Diphenylacetone	349A
811938	1,2-Diamino-2-methylpropane	99C
821067	1,4-Dibromo-2-butene	42B
821954	1-Undecene	7C
825514	Decahydro-2-naphthol	64B
830137	Cyclododecanone	140A
836306	4-Nitrodiphenylamine	344B
867130	Triethyl phosphonoacetate	215B
868779	2-Hydroxyethyl methacrylate	186B

872059	1-Decene	4A
872504	1-Methyl-2-pyrrolidinone	116A
873325	2-Chlorobenzonitrile	407B
873745	4-Aminobenzonitrile	406C
873767	4-Chlorobenzyl alcohol	289C
874420	2,4-Dichlorobenzaldehyde	370A
882337	Phenyl disulfide	297C
886384	Diphenylcyclopropenone	354B
886657	trans,trans-1,4Diphenyl-1,3-butadiene	223C
908662	- Diethyl azodicarboxylate	200B
927684	2-Bromoethyl acetate	180C
928518	4-Chloro-1-butanol	67A
928950	2-Hexen-1-ol	61A
998301	Triethoxysilane	457B
999973	1,1,1,3,3,3-Hexamethyldisilazane	454C
1002693	1-Chlorodecane	25A
1003094	2-Bromothiophene	420B
1067749	Methyl diethylphosphonoacetate	215A
1068902	Diethyl acetamidomalonate	112C
1072839	2-Acetylpyrrole	417A
1072851	1-Bromo-2-fluorobenzene	231C
1081772	Nonyl-benzene	219C
1083483	4-(4-Nitrobenzyl)-pyridine	439C
1116401	Triisobutylamine	105B
1118463	Butyltin trichloride	477B
1120214	Undecane	2C
1122583	4-Dimethylaminopyridine	435B
1122629	2-Acetylpyridine	431A
1138803	N-Benzyloxycarbonyl glycine	289B
1191997	2,3-Dihydrofuran	82C
1194656	2,6-Dichlorobenzonitrile	408B
1285380	2,3,4,5,6-Pentachlorophenol	277B
1450142	Hexamethyldisilane	454B
1461252	Tetrabutyltin	480C
1482822	Dibenzyl diselenide	297A

1563662	Carbofuran	418A
1564643	9-Bromoanthrazene	241C
1567891	2,4-Dinitrophenyl hydrazine	339B
1570645	4-Chloro-2-methylphenol	257B
1576870	2-Pentenal	152B
1634044	tert-Butyl methyl ether	71B
1689823	4-Phenylazophenol	483C
1708298	2,5-Dihydrofuran	83A
1712647	Isopropyl nitrate	121B
1738256	3-Dimethylaminopropionitrile	207C
1745819	2-Allylphenol	253C
1765408	α -Bromo-2,3,4,5,6-pentafluorotoluene	238A
1806264	Octylphenol	277A
1806297	2,2-Biphenol	285B
1885149	Phenyl chloroformate	398B
1984652	2,6-Dichloroanisole	246C
2004708	1,3-Pentadiene	15A
2009838	2-Chloro-1-hexanol	67B
2014837	α ,2,6-Trichlorotoluene	241B
2016571	Decylamine	96B
2021285	Ethyl 3-phenylpropionate	385C
2043610	Cyclohexanecarboxaldehyde	152C
2045796	2-Methoxyphenethylamine	325C
2078548	2,6-Diisopropylphenol	265B
2142690	2'-Bromoacetophenone	352A
2168936	n-Butylsulfoxide	211A
2179579	Diallyl disulfide	91A
2217154	Diisopropyl L-tartrate	184B
2219821	2-tert-Butyl-6-methylphenol	256A
2237301	3-Aminobenzonitrile	406B
2363895	2-Octenal	152A
2371199	3-Methyl-2-heptanone	129A
2385775	Citronellal	149B
2409554	2-tert-Butyl-4-methylphenol	255C
2432146	2,6-Dibromo-4-methylphenol	262B

2456817	4-Pyrrolidinopyridine	442C
2591868	1-Formylpiperidine	200A
2627863	L-1-Phenylethylamine	327C
2632135	2-Bromo-4'-methoxyacetophenone	358C
2761242	Amyltriethoxysilane	451A
2816571	2,6-Dimethylcyclohexanone	142A
2835770	2-Aminobenzophenone, 2-Benzoylaniline	360A
2902967	2-Nitro-1-propanol	122A
2987533	2-Methylmercaptoaniline	315B
3068006	1,2,4-Butanetriol	70B
3209221	2,3-Dichloronitrobenzene	334B
3282302	Trimethylacetyl chloride	193B
3354583	2-Methyl-6-allylphenol	275C
3391864	1-Octen-3-ol	62B
3440026	Dimethyldiphenoxysilane	461C
3445112	1-(2-Hydroxyethyl-2-pyrrolidinone	142C
3886699	DL-1-Phenyl-ethylamine	328A
3916152	Tetra butylammonium iodide	119B
3919222	Quinhydrone	364C
3938952	Ethyl trimethylacetate	166B
4128318	2-Octanol	54B
4240859	4,4-Diphenylcyclohexenone	354A
4253912	Propyl sulfoxide	211C
4313035	2,4-Heptadienal	150B
4358887	Ethyl DL-mandelate	386A
4389451	2-Amino-3-methylbenzoic acid	380A
4549320	1,8-Dibromooctane	34C
4619743	2,4,6-Tribromo-m-cresol	278C
4637245	N,N-Dimethylformamide dimethyl acetal	114B
4659476	2,3,6-Trichlorobenzaldehyde	378A
4675629	Fenchone	142B
4712554	Diphenyl phosphite	415A
5150425	2,3-Dimethoxyphenol	265C
5263876	6-Methoxyquinoline	444A
5332069	4-Bromobutyronitrile	206B

5436215	Acetylacetaldehyde dimethyl acetal	137A
5448293	N-Isopropyl-2-methyl-1,2-propanediamine	107A
5655618	Bornyl acetate	175C
5794036	(+)-Camphene	16B
5875241	3-Chloropropionamide	195C
5989275	(R)-(+)-Limonene	18C
6117802	2-Butene-1,4-diol	60A
6117915	Crotyl alcohol	60C
6153395	Orcinol monohydrate	283B
6193471	Cyclopropyl 2-thienyl ketone	420C
6316421	N-n-Butylimidazole	422A
6342569	Pyruvic aldehyde dimethyl acetal	137B
6485401	RCarvone	139C
6627890	tert-Butyl phenyl carbonate	395A
6630337	2-Bromobenzaldehyde	369A
6728263	2-Hexenal	151A
6843669	Dimethoxydiphenylsilane	461B
6923224	Monocrotophos	215C
6971513	3-Methoxybenzyl alcohol	292C
7087685	N,N-Diisopropylethylamine	103C
7226235	1,3-Dimethyl-3,4,5,6-tetrahydro-2-(1H)- pyrimidinone	202B
7311344	3,5-Dimethoxybenzaldehyde	372A
7378996	N,N-Dimethyloctylamine	104A
7429370	1,2-Dibromocyclohexane	45C
7446095	Sulfur dioxide	480A
7446095	Sulfur dioxide	480B
7541493	Tetramethyl-hexadec-2-en-1-ol	62C
7568936	2-Amino-1-phenylethanol	322A
7664417	Ammonia	477A
7719097	Thionyl chloride	481A
7732185	Water	481B
7778850	1,2-Dimethoxypropane	71C
7782505	Chlorine	477C
7783064	Hydrogen sulfide	88B
7783064	Hydrogen sulfide	478B
7803512	Phosphine	213A

7803512	Phosphine	479C
10102439	Nitric oxide	478C
10102439	Nitric oxide	479A
10482561	α -Terpineol	65C
10531132	Cyanomethyl benzenesulfonate	411A
11066492	Nonylphenol	276C
13214669	4-Phenylbutylamine	327B
13250129	secButylamine	95C
13325105	4-Amino-1-butanol	110C
13389429	2-Octene	6C
13466789	3-Carene	16C
13608872	2,3,4-Trichloroacetophenone	356B
14210254	5-Chloro-1-phenyl-1H-tetrazole	422C
14352615	Methyl cyclohexylacetate	176B
14371109	Cinnamaldehyde, trans-3-Phenyl-2-propenal	367A
14898874	1-Phenyl-2-propanol	294A
14938353	4-Amylphenol	254B
15892236	2-Butanol	52B
18503907	N,N-Dimethylformamide dibutyl acetal	114A
18829555	2-Heptenal	150C
19686738	1-Bromo-2-propanol	66B
19902080	β -Pinene	19C
21368683	Camphor	139B
24424995	Di-tert-butyl dicarbonate	171B
25152845	2,4-Decadienal	150A
25167708	Diisobutylene	8A
25561302	Bis(trimethylsilyl)trifluoroacetamide	451B
26171835	1,2-Butanediol	56A
28059645	2-Benzylaniline, N-Benzylaniline	321A
28920436	9-Fluorenylmethyl chloroformate	397A
30899195	n-Amyl alcohol	47A
33213659	α -Endosulfan	483B
34052374	2-Chloro-5-nitrobenzophenone	362A
34590948	Dipropylene glycol mehtyl ether	79C
34803662	1-(2-Pyridyl)piperazine	442B

39416483	Pyridinium bromide, Pyridinium tribromide	442A
50375105	2,3,6-Trichloroanisole	250B
51779329	Di-tert-butyl iminodicarboxylate	189C
53759221	N-Nitrosornicotine	440A
64091914	4-(N-Methyl-N-nitrosoamino)-1-(3-pyridyl)-1-butanone	438C
65262966	3-Chloro-5-methoxyphenol	258B
98244485	3-Bromo-2-methyl-1-propanol	66A

Specifications missing

2-Ethyl-1-hexene	9B
3-Ethyl-2-pentene	9C
3-Methyl-2-pentene	11A
2,3,3-Trimethyl-1-pentene	11B
1,2-Heptadiene	12C
1,2-Hexadiene	13A
4-Methyl-1,2-pentadiene	14B
α -Phellandrene	19B
1-Bromooctane, 1-Bromo-2-methylheptane	29A
2-Iodopentane	31C
2,3-Dibromo-2,3-dimethylbutane	33A
2-Chloro-1-butene	42A
2,2-Dimethyl-1-butanol	48A
2,2-Dimethyl-3-butanol	55C
2,2-Dimethyl-3,3-propanediol	57B
2-Hydroxymethyl-2-methyl-1,3-propanediol	58A
2-Hydroxymethyl-5-norbornene	64C
1-Ethoxy-1,3,3-trimethoxypropane	72B
Isoamyl ether	72C
Cyclohexyl vinyl ether	74B
β -Ethoxipropionic acid ethyl ester	75C
Ethyl itaconate	77B
1-Ethoxy-2-propanol	80C
tert-Octylmercaptan	90A
Dodecyl methyl sulfide	92B
Isoamyl nitrate	121A
Trinitromethane	124B
3-Ethyl-2-pentanone	126C

4-Acetoamino-3-penten-2-one	132C
2-Ethylene cyclohexanone	133B
2,4-Hexanedione	138A
Tetrachloro-1,2-benzoquinone	143C
Thiolactic acid	161C
Adipic acid diethyl ester	163A
Ethyl succinate	166A
Ethylcapronate	166C
2-Metyl-1-butyl formate	170B
Diethyl di-n-butyl malonate	172B
Ethyl oxolate	174C
Pentanoic acid ethyl ester	175A
3-Cyclohexene-1-carboxylic acid methyl ester	176A
Methyl 3-cyclohexenecarboxylate	179B
DL-B-Chloro-n-butteric acid methylester	181B
Dichloroacetic acid ethylester	181C
Diethyl bromoethylmalonate	182A
Adipic acid diethyl ester	188A
2-Oxopropanoic acid ethyl ester	189B
Adiponitrile	205C
Tripenyl phosphite	214C
iso-Butoxy-phenyl	246B
2,5-Dimethyl-1-methoxybenzene	247C
3-Methyl-1-methoxybenzene	249A
Phenoxy-isopropyl	249C
Propyl-phenyl ether	250A
1,4-Dihydroxybenzenmonobenzyl ether	252A
6-Allyl-2-methoxyphenol	253A
4-Allyl-2-methoxyphenol	253B
4-Benzylphenol	254C
o-Chloro-m-cresol	259A
p-Cresolmethyl ether	261B
4-Cyclohexylphenol	261C

2,6-Diallylphenol	262A
2,4-Dichloro-o-cresol	265B
3,4-Dimethoxyphenol	266B
2,6-Di-tert-butyl-4-methylphenol	269A
4-Hydroxy-3-methoxybenzyl ether	272B
2-Methyl-4-tert-butylphenol	275A
2-Methyl-4-tert-hexylphenol	275B
2-Methyl-6-propylphenol	276A
3-Methyl-6-tert-butylphenol	276B
Hydroquinone dimethyleter	284B
Tetrachlorohydroquinone	284C
4-Benzyl-phenol	285A
4,4-Dihydroxybiphenyl-2,2-propane	285C
4-Hydroxybiphenyl	287B
2-Mercapto-benzazole-2-benzoxazolthiol	295B
3-Chloro-4-methylaniline	303C
3-Chloro-o-anisidine	305B
4-Chloro-o-anisidine	305C
N-Methyl-N-phenylbenzylamine	315C
Tribromoaniline	317A
3,4-Dimethoxybenzylamine	325A
1-Naphthylamine	326C
N'-Nitrosoabasine	329C
N-Nitrosoatabine	330A
2,6-Dinitro-4-methylphenol	335C
2,6-Dinitrophenol	339A
3-Nitrochlorobenzene	343C
Phenyl-2-propanone	350B
1-Nitro-anthraquinone	364B
3-Ethoxy-2-hydroxybenzaldehyde	373A
3-Ethoxy-4-hydroxybenzaldehyde	373B
3-Hydroxyphenyl acetate	386C
n-Butylacetanilide	399C
N-Methylacetanilide	400C

3-Nitroacetanilide	402B
7-Chloro-4-nitrobenzofuran	427B
5-Nonylpyridine	440B
8-Acetoxyquinoline	443A
Diacetylsilane	452A
Diethoxy-dimethylsilane	452C
Diisoamyl dimethylsilane	453A
Ditert-butoxy-di-ethoxysilane	453B
Heptoxy trimethylsilane	453C
Hexaethyl disiloxane	454A
Tetrahexoxysilane	456A
Tetraisobutoxysilane	456B
Tetramethoxysilane	456C
Tetrapropyl silane	457A
Triethyl triethoxy disiloxane	457C
Triisobutoxy hydroxy silane	458A
Trimethyl-hexoxysilane	458C
Trimethyl-pentoxysilane	459A
Di-(4-hydroxy-3-methyl-phenyl)- dihydroxysilane	459C
Dichloro-diphenoxysilane	460A
Diethoxy-di-(4-hydroxy-3-methyl-phenoxy) silane	460B
Diethoxy-diphenoxysilane	460C
Diethoxy-diphenylsilane	461A
Dimethyl-di-(2-methyl-phenoxy)silane	462B
Diphenoxy dibutoxysilane	462C
Di-tert-butoxy-di-(3-methyl-4-hydroxy- phenoxy)silane	463B
Tetra-(4-hydroxy-2-methyl-phenoxy-)silane	464A
Tetra-(4-hydroxy-3-methyl-phenoxy-)silane	464B
Tri-(4-methyl-phenoxy)-methylsilane	464C
Trichloro-phenoxy silane	465A
Triethoxy-phenoxy silane	465B
Triethoxy-(2,4-dimethyl-phenoxy)silane	465C

Triethoxy-(2,6-dimethyl-phenoxy)silane	466A
Triethoxy-(2-chloro-phenoxy)silane	466B
Triethoxy-(2-methyl-5-hydroxy-phenoxy) silane	466C
Triethoxy-(3-methyl-4-hydroxy-phenoxy) silane	467A
Triethoxy-(2-methyl-phenoxy)silane	467B
Triethoxy-(4-chloro-phenoxy)silane	467C
Triethoxy-(4-hydroxy-3-isobutyl-6-methyl- phenoxy)silane	468A
Triethoxy-(4-hydroxy-3-methyl-5-isopropyl- phenoxy)silane	468B
Triethoxy-(4-hydroxy-3-methyl-phenoxy) silane	468C
Triethoxy-phoxysilane	469A
Triethoxy-phenylsilane	469B
Trimethoxy-phoxysilane	469C
Trimethyl-(2,3-di-(trimethylsilane-phenoxy)) silane	470A
Trimethyl-(2,4-di-(trimethylsilane-phenoxy)) silane	470B
Trimethyl-(2,5-trimethylsilane-phenoxy) silane	470C
Trimethyl-(3,4-trimethylsilane-phenoxy) silane	471A
Trimethyl-(3,5-trimethylsilane-phenoxy) silane	471B
Trimethyl-(2-trimethylsilane-phenoxy)silane	471C
Trimethyl-(4-hydroxy-3-methyl-phenoxy) silane	472A
Trimethyl-(4-trimethylsilane-phenoxy)silane	472B
Trimethyl-phoxysilane	472C
2,3-Trimethylsilane-phenol	473A
Oxygen	479B
10-Undecen-1-ol-acetat	484B