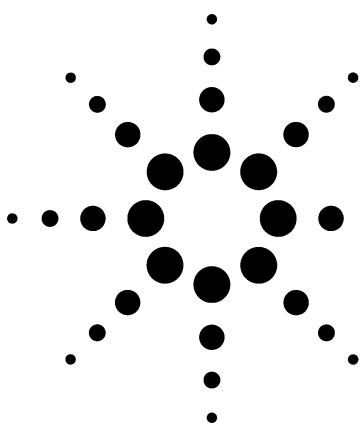




Solvent Retention Data

Sorted alphabetically and by retention time

DB-624, DB-1, DB-WAX columns specified in USP Method 467

Data Sheet

Author

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DB-624 - Alphabetical

Column: DB-624
30 m x 0.53 mm I.D., 3 µm
P/N: 125-1334
Oven: 40°C for 5 min
40-260°C at 10°/min
260°C for 3 min
Carrier: Helium
at 30 cm/sec (40°C)
Injector: Split 1:10, 250°C
Detector: FID, 300°C

Retention Time	Compound
10.58	acetal (acetaldehyde diethyl acetal)
2.46	acetaldehyde
9.10	acetic acid
4.05	acetone
4.27	acetonitrile
19.69	acetophenone
3.81	acrolein
12.21	acrylic acid
5.22	acrylonitrile
9.65	allyl ether
6.41	allyl ethyl ether
15.57	amyl acetate
17.45	benzaldehyde
8.69	benzene
18.21	benzonitrile
21.07	benzyl acetate
19.27	benzyl alcohol
29.08	benzyl ether
16.39	bromobenzene
7.59	bromochloromethane

Retention Time	Compound	Retention Time	Compound
10.64	bromodichloromethane	10.37	dibromomethane
4.27	bromoethane	18.69	1,2-dichlorobenzene
15.61	bromoform	17.96	1,3-dichlorobenzene
16.10	1,3-butanediol	18.79	1,4-dichlorobenzene
17.70	1,4-butanediol	16.46	trans-1,4-dichloro-2-butene
14.14	2,3-butanediol	6.11	1,1-dichloroethane
6.99	2,3-butanedione (diacetal)	9.62	1,2-dichloroethane (ethylene dichloride)
9.73	1-butanol	4.00	1,1-dichloroethylene (vinylidene chloride)
7.19	2-butanone (MEK)	7.16	cis-1,2-dichloroethylene
9.87	2-buten-1-ol (crotyl alcohol)	5.33	trans-1,2-dichloroethylene
9.02	3-buten-1-ol	8.72	1,1-dichloropropane
15.89	2-butoxyethanol (butyl cellosolve)	10.17	1,2-dichloropropane
13.24	butyl acetate	12.86	1,3-dichloropropane
18.69	butylbenzene	7.16	2,2-dichloropropane
14.41	butyl ether	8.34	1,1-dichloropropene
9.34	butyl ethyl ether	11.38	cis-1,3-dichloropropene
7.10	butyl methyl ether	12.30	trans-1,3-dichloropropene
6.84	butyraldehyde	18.24	diethylene glycol
4.27	carbon disulfide	21.46	diethylene glycol monobutyl ether
8.34	carbon tetrachloride	18.04	diethylene glycol monoethyl ether
14.25	chlorobenzene	16.78	diethylene glycol monomethyl ether
8.25	1-chlorobutane	9.92	diglyme (diethylene glycol dimethyl ether)
13.25	chlorodibromomethane	20.35	1,3-diisopropylbenzene
7.75	chloroform	20.73	1,4-diisopropylbenzene
14.21	1-chlorohexane	12.94	2,4-dimethyl-3-pentanone
23.06	1-chloro-4-nitrobenzene		(diisopropyl ketone)
4.57	3-chloropropene (allyl chloride)	17.06	2,6-dimethyl-4-heptanone
19.35	4-chlorostyrene		(diisobutyl ketone)
16.71	2-chlorotoluene	10.38	1,4-dioxane
16.82	3-chlorotoluene	7.30	1,3-dioxolane
16.82	4-chlorotoluene	13.73	DMF (dimethylformamide)
9.18	crotonaldehyde	15.58	DMSO (methyl sulfoxide)
8.10	cyclohexane	20.58	dodecane
15.63	cyclohexanol	11.22	epichlorohydrin
16.04	cyclohexanone	3.47	ethanol
13.16	cyclopentanol	10.98	2-ethoxyethanol (cellosolve)
13.39	cyclopentanone	15.57	2-ethoxyethyl acetate
16.82	decane	7.34	ethyl acetate
27.43	1,10-decanediol	10.02	ethyl acrylate
22.65	1-decanol	14.42	ethylbenzene
20.02	1,2-dibromo-3-chloropropane (DBCP)	21.22	ethyl benzoate
13.43	1,2-dibromoethane (EDB)	12.15	ethylene glycol



Agilent Technologies

Retention Time	Compound	Retention Time	Compound	Retention Time	Compound
15.84	ethylene glycol monobutyl ether	4.60	methyl acetate	6.21	2-propen-1-ol (allyl alcohol)
10.95	ethylene glycol monoethyl ether	19.90	methyl benzoate	3.91	propionaldehyde
8.64	ethylene glycol monomethyl ether	11.87	2-methyl-1-butanol (active amyl alcohol)	11.89	propionic acid
3.72	ethyl ether	8.73	2-methyl-2-butanol (tert-amyl alcohol)	7.25	propionitrile
4.27	ethyl formate	11.78	3-methyl-1-butanol (iso-amyl alcohol)	10.51	propyl acetate
18.40	2-ethyl-1-hexanol	9.21	3-methyl-2-butanone	16.56	propylbenzene
22.65	a-ethylphenethyl alcohol	7.91	2-methyl-3-buten-2-ol	22.92	propyl benzoate
23.03	b-ethylphenethyl alcohol	12.85	3-methyl-2-buten-1-ol	13.16	propylene glycol (1,2-propanediol)
10.37	ethyl propionate	14.82	2-methylbutyl acetate	9.05	propyl ether
3.72	ethyl vinyl ether	4.80	methylene chloride	7.66	propyl formate
9.18	fluorobenzene	2.80	methyl formate	13.07	propyl propionate
3.24	fluorotrichloromethane (Freon 11)	16.52	5-methyl-3-heptanone	7.55	2-propyn-1-ol (propargyl alcohol)
3.72	furan	14.73	5-methyl-2-hexanone	11.70	pyridine
14.63	furfural	11.85	2-methyl-3-pentanone	7.55	sec-butanol
15.32	furfuryl alcohol	11.64	4-methyl-2-pentanone	11.76	sec-butyl acetate
11.93	glycidol	(MIBK; methyl isobutyl ketone)	17.68	sec-butylbenzene	
8.65	glyme (propylene glycol dimethyl ether)	12.28	4-methyl-2-pentanol	15.28	styrene
15.60	heptanal	13.20	4-methyl-3-penten-3-one	19.46	styrene oxide
9.15	heptane	19.60	a-methylphenyl alcohol	8.89	tert-amyl methyl ether
22.97	1,7-heptanediol	7.88	methyl propionate	5.01	tert-butanol
17.22	1-heptanol	19.66	1-methylpyrrolidone	10.02	tert-butyl acetate
15.63	2-heptanol	17.22	a-methylstyrene	17.39	tert-butylbenzene
15.53	3-heptanol	17.68	4-methylstyrene	6.90	tert-butyl ethyl ether
15.46	2-heptanone	5.30	methyl tert-butyl ether (MTBE)	19.35	4-tert-butyltoluene
15.29	3-heptanone	12.98	morpholine	24.02	1,2,4,5-tetrachlorobenzene
14.95	4-heptanone	20.35	nitrobenzene	14.38	1,1,1,2-tetrachloroethane
17.22	trans-2-hepten-1-ol	21.60	2-nitrotoluene	16.38	1,1,2,2-tetrachloroethane
17.22	cis-4-hepten-1-ol	22.40	3-nitrotoluene	12.86	tetrachloroethylene
21.69	hexachloro-1,3-butadiene	22.79	4-nitrotoluene	23.80	tetradecane
26.63	hexadecane	19.71	nonanal	10.06	tetrahydropyran
13.14	hexanal	14.63	nonane	7.64	THF (tetrahydrofuran)
5.82	hexane	26.02	1,9-nonanediol	19.63	m-tolualdehyde
21.30	1,6-hexanediol	20.97	1-nonanol	19.63	o-tolualdehyde
15.06	1-hexanol	17.76	octanal	19.96	p-tolualdehyde
13.31	2-hexanol	12.11	octane	11.93	toluene
13.16	3-hexanol	24.54	1,8-octanediol	22.23	1,2,3-trichlorobenzene
13.01	2-hexanone	19.17	1-octanol	21.41	1,2,4-trichlorobenzene
12.80	3-hexanone	17.63	2-octanone	20.35	1,3,5-trichlorobenzene
15.19	cis-2-hexen-1-ol	17.45	3-octanone	8.05	1,1,1-trichloroethane
14.88	cis-3-hexen-1-ol	27.10	pentachlorobenzene	12.60	1,1,2-trichloroethane
14.24	4-hexen-3-one	25.26	pentadecane	9.80	trichloroethylene
14.98	4-hydroxy-4-methyl-2-pentanone	10.25	pentanal (valeraldehyde)	16.46	1,2,3-trichloropropane
18.10	iodobenzene	3.37	pentane	4.00	1,1,2-trichlorotrifluoroethane (Freon 113)
4.27	iodomethane	19.52	1,5-pentanediol	22.24	tridecane
14.75	iso-amyl acetate	10.34	2,3-pentanedione	8.91	triethylamine
8.60	iso-butanol	12.63	1-pentanol	21.95	triglyme (triethylene glycol dimethyl ether)
12.19	iso-butyl acetate	10.60	2-pentanol	18.18	1,2,3-trimethylbenzene (hemimellitene)
17.68	iso-butylbenzene	10.60	3-pentanol	17.47	1,2,4-trimethylbenzene (pseudocumene)
5.66	iso-butyraldehyde	10.11	2-pentanone	16.82	1,3,5-trimethylbenzene (mesitylene)
8.81	iso-octane	10.34	3-pentanone	18.78	undecane
21.04	isophorone	10.20	1-penten-3-ol	6.37	vinyl acetate
4.27	iso-propanol	12.63	2-penten-1-ol	14.62	m-xylene
8.87	iso-propyl acetate	10.03	1-penten-3-one (ethyl vinyl ketone)	15.28	o-xylene
15.88	iso-propylbenzene (cumene)	6.93	3-penten-2-one (methyl vinyl ketone)	14.62	p-xylene
6.23	iso-propyl ether	18.53	pentyl ether		
6.01	methacrolein	22.65	2-phenoxyethanol		
7.53	methacrylonitrile	22.91	4-phenyl-2-butanone (benzyl acetone)		
2.59	methanol	13.13	1,3-propanediol		
8.67	2-methoxyethanol (methyl cellosolve)	6.34	1-propanol		

DB-624 - Retention

Column: DB-624
30 m x 0.53 mm I.D., 3 µm

P/N: 125-1334

Oven: 40°C for 5 min
 40-260°C at 10°/min
 260°C for 3 min

Carrier: Helium
 at 30 cm/sec (40°C)

Injector: Split 1:10, 250°C

Detector: FID, 300°C

Retention Time	Compound
2.46	acetaldehyde
2.59	methanol
2.80	methyl formate
3.24	fluorotrichloromethane (Freon 11)
3.37	pentane
3.47	ethanol
3.72	ethyl ether
3.72	ethyl vinyl ether
3.72	furan
3.81	acrolein
3.91	propionaldehyde
4.00	1,1-dichloroethylene (vinylidene chloride)
4.00	1,1,2-trichlorotrifluoroethane (Freon 113)
4.05	acetone
4.27	acetonitrile
4.27	bromoethane
4.27	carbon disulfide
4.27	ethyl formate
4.27	iodomethane
4.27	iso-propanol
4.57	3-chloropropene (allyl chloride)
4.60	methyl acetate
4.80	methylene chloride
5.01	tert-butanol
5.22	acrylonitrile
5.30	methyl tert-butyl ether (MTBE)
5.33	trans-1,2-dichloroethylene
5.66	iso-butyraldehyde
5.82	hexane
6.01	methacrolein
6.11	1,1-dichloroethane
6.21	2-propen-1-ol (allyl alcohol)
6.23	iso-propyl ether
6.34	1-propanol
6.37	vinyl acetate
6.41	allyl ethyl ether
6.84	butyraldehyde
6.90	tert-butyl ethyl ether
6.93	3-penten-2-one (methyl vinyl ketone)
6.99	2,3-butanedione (diacetal)
7.10	butyl methyl ether
7.16	cis-1,2-dichloroethylene
7.16	2,2-dichloropropane
7.19	2-butanone (MEK)

Retention Time	Compound	Retention Time	Compound
7.25	propionitrile	10.64	bromodichloromethane
7.30	1,3-dioxolane	10.95	ethylene glycol monoethyl ether
7.34	ethyl acetate	10.98	2-ethoxyethanol (cellosolve)
7.53	methacrylonitrile	11.22	epichlorohydrin
7.55	sec-butanol	11.38	cis-1,3-dichloropropene
7.55	2-propyn-1-ol (propargyl alcohol)	11.64	4-methyl-2-pentanone
7.59	bromochloromethane		MIBK; methyl isobutyl ketone)
7.64	THF (tetrahydrofuran)	11.70	pyridine
7.66	propyl formate	11.76	sec-butyl acetate
7.75	chloroform	11.78	3-methyl-1-butanol (iso-amyl alcohol)
7.88	methyl propionate	11.85	2-methyl-3-pentanone
7.91	2-methyl-3-buten-2-ol	11.87	2-methyl-1-butanol (active amyl alcohol)
8.05	1,1,1-trichloroethane	11.89	propionic acid
8.10	cyclohexane	11.93	glycidol
8.25	1-chlorobutane	11.93	toluene
8.34	carbon tetrachloride	12.11	octane
8.34	1,1-dichloropropene	12.15	ethylene glycol
8.60	iso-butanol	12.19	iso-butyl acetate
8.64	ethylene glycol monomethyl ether	12.21	acrylic acid
8.65	glyme (propylene glycol dimethyl ether)	12.28	4-methyl-2-pentanol
8.67	2-methoxyethanol (methyl cellosolve)	12.30	trans-1,3-dichloropropene
8.69	benzene	12.60	1,1,2-trichloroethane
8.72	1,1-dichloropropane	12.63	1-pentanol
8.73	2-methyl-2-butanol (tert-amyl alcohol)	12.63	2-penten-1-ol
8.81	iso-octane	12.80	3-hexanone
8.87	iso-propyl acetate	12.85	3-methyl-2-buten-1-ol
8.89	tert-amyl methyl ether	12.86	1,3-dichloropropane
8.91	triethylamine	12.86	tetrachloroethylene
9.02	3-buten-1-ol	12.94	2,4-dimethyl-3-pentanone
9.05	propyl ether		(diisopropyl ketone)
9.10	acetic acid	12.98	morpholine
9.15	heptane	13.01	2-hexanone
9.18	crotonaldehyde	13.07	propyl propionate
9.18	fluorobenzene	13.13	1,3-propanediol
9.21	3-methyl-2-butanone	13.14	hexanal
9.34	butyl ethyl ether	13.16	cyclopentanol
9.62	1,2-dichloroethane (ethylene dichloride)	13.16	3-hexanol
9.65	allyl ether	13.16	propylene glycol (1,2-propanediol)
9.73	1-butanol	13.20	4-methyl-3-penten-3-one
9.80	trichloroethylene	13.24	butyl acetate
9.87	2-buten-1-ol (crotyl alcohol)	13.25	chlorodibromomethane
9.92	diglyme (diethylene glycol dimethyl ether)	13.31	2-hexanol
10.02	tert-butyl acetate	13.39	cyclopentanone
10.02	ethyl acrylate	13.43	1,2-dibromoethane (EDB)
10.03	1-penten-3-one (ethyl vinyl ketone)	13.73	DMF (dimethylformamide)
10.06	tetrahydropyran	14.14	2,3-butanediol
10.11	2-pentanone	14.21	1-chlorohexane
10.17	1,2-dichloropropane	14.24	4-hexen-3-one
10.20	1-penten-3-ol	14.25	chlorobenzene
10.25	pentanal (valeraldehyde)	14.38	1,1,1,2-tetrachloroethane
10.34	2,3-pentanedione	14.41	butyl ether
10.34	3-pentanone	14.42	ethylbenzene
10.37	dibromomethane	14.62	m-xylene
10.37	ethyl propionate	14.62	p-xylene
10.38	1,4-dioxane	14.63	furfural
10.51	propyl acetate	14.63	nonane
10.58	acetal (acetaldehyde diethyl acetal)	14.73	5-methyl-2-hexanone
10.60	2-pentanol	14.75	iso-amyl acetate
10.60	3-pentanol	14.82	2-methylbutyl acetate

Retention Time	Compound	Retention Time	Compound
14.88	cis-3-hexen-1-ol	18.69	butylbenzene
14.95	4-heptanone	18.69	1,2-dichlorobenzene
14.98	4-hydroxy-4-methyl-2-pentanone	18.78	undecane
15.06	1-hexanol	18.79	1,4-dichlorobenzene
15.19	cis-2-hexen-1-ol	19.17	1-octanol
15.28	styrene	19.27	benzyl alcohol
15.28	o-xylene	19.35	4-tert-butyltoluene
15.29	3-heptanone	19.35	4-chlorostyrene
15.32	furfuryl alcohol	19.46	styrene oxide
15.46	2-heptanone	19.52	1,5-pentanediol
15.53	3-heptanol	19.60	α -methylphenyl alcohol
15.57	amyl acetate	19.63	m-tolualdehyde
15.57	2-ethoxyethyl acetate	19.63	o-tolualdehyde
15.58	DMSO (methyl sulfoxide)	19.66	1-methyl-pyrrolidone
15.60	heptanal	19.69	acetophenone
15.61	bromoform	19.71	nonanal
15.63	cyclohexanol	19.90	methyl benzoate
15.63	2-heptanol	19.96	p-tolualdehyde
15.84	ethylene glycol monobutyl ether	20.02	1,2-dibromo-3-chloropropane (DBCP)
15.88	iso-propylbenzene (cumene)	20.35	1,3-diisopropylbenzene
15.89	2-butoxyethanol (butyl cellosolve)	20.35	nitrobenzene
16.04	cyclohexanone	20.35	1,3,5-trichlorobenzene
16.10	1,3-butanediol	20.58	dodecane
16.38	1,1,2,2-tetrachloroethane	20.73	1,4-diisopropylbenzene
16.39	bromobenzene	20.97	1-nonanol
16.46	trans-1,4-dichloro-2-butene	21.04	isophorone
16.46	1,2,3-trichloropropane	21.07	benzyl acetate
16.52	5-methyl-3-heptanone	21.22	ethyl benzoate
16.56	propylbenzene	21.30	1,6-hexanediol
16.71	2-chlorotoluene	21.41	1,2,4-trichlorobenzene
16.78	diethylene glycol monomethyl ether	21.46	diethylene glycol monobutyl ether
16.82	3-chlorotoluene	21.60	2-nitrotoluene
16.82	4-chlorotoluene	21.69	hexachloro-1,3-butadiene
16.82	decane	21.95	triglyme (triethylene glycol dimethyl ether)
16.82	1,3,5-trimethylbenzene (mesitylene)	22.23	1,2,3-trichlorobenzene
17.06	2,6-dimethyl-4-heptanone	22.24	tridecane
	(diisobutyl ketone)	22.40	3-nitrotoluene
17.22	1-heptanol	22.65	1-decanol
17.22	trans-2-hepten-1-ol	22.65	α -ethylphenethyl alcohol
17.22	cis-4-hepten-1-ol	22.65	2-phenoxyethanol
17.22	α -methylstyrene	22.79	4-nitrotoluene
17.39	tert-butylbenzene	22.91	4-phenyl-2-butanone (benzyl acetone)
17.45	benzaldehyde	22.92	propyl benzoate
17.45	3-octanone	22.97	1,7-heptanediol
17.47	1,2,4-trimethylbenzene (pseudocumene)	23.03	β -ethylphenethyl alcohol
17.63	2-octanone	23.06	1-chloro-4-nitrobenzene
17.68	iso-butylbenzene	23.80	tetradecane
17.68	sec-butylbenzene	24.02	1,2,4,5-tetrachlorobenzene
17.68	4-methylstyrene	24.54	1,8-octanediol
17.70	1,4-butanediol	25.26	pentadecane
17.76	octanal	26.02	1,9-nonanediol
17.96	1,3-dichlorobenzene	26.63	hexadecane
18.04	diethylene glycol monoethyl ether	27.10	pentachlorobenzene
18.10	iodobenzene	27.43	1,10-decanediol
18.18	1,2,3-trimethylbenzene (hemimellitene)	29.08	benzyl ether
18.21	benzonitrile		
18.24	diethylene glycol		
18.40	2-ethyl-1-hexanol		
18.53	pentyl ether		

DB-1 - Alphabetical

Column: DB-1
30 m x 0.53 mm I.D., 3 µm

P/N: 125-1034

Oven: 40°C for 5 min
 40-260°C at 10°/min

Carrier: Helium
 at 30 cm/sec (40°C)

Injector: Split 1:10, 250°C

Detector: FID, 300°C

Retention Time	Compound
10.21	acetal (acetaldehyde diethyl acetal)
2.16	acetaldehyde
16.87	acetic acid
3.05	acetone
2.87	acetonitrile
18.13	acetophenone
2.98	acrolein
19.16	acrylic acid
3.43	acrylonitrile
9.05	allyl ether
6.00	allyl ethyl ether
14.04	amyl acetate
15.88	benzaldehyde
8.00	benzene
16.26	benzonitrile
19.86	benzyl acetate
17.42	benzyl alcohol
27.72	benzyl ether
15.54	bromobenzene
4.79	bromochloromethane
9.22	bromodichloromethane
3.75	bromoethane
14.20	bromoform
13.30	1,3-butanediol
15.03	1,4-butanediol
11.40	2,3-butanediol
5.09	2,3-butanedione (diacetal)
7.90	1-butanol
5.41	2-butanone (MEK; methyl ethyl ketone)
7.99	2-buten-1-ol (crotyl alcohol)
6.95	3-buten-1-ol
14.72	2-butoxyethanol (butyl cellosolve)
12.36	butyl acetate
14.39	butyl ether
9.18	butyl ethyl ether
6.85	butyl methyl ether
18.24	butylbenzene
5.29	butyraldehyde
4.37	iso-butyraldehyde
4.09	carbon disulfide
8.18	carbon tetrachloride
13.44	chlorobenzene
7.56	1-chlorobutane
11.81	chlorodibromomethane
6.34	chloroform
13.69	1-chlorohexane
21.34	1-chloro-4-nitrobenzene

Retention Time	Compound	Retention Time	Compound
3.96	3-chloropropene (allyl chloride)	9.35	ethylene glycol monoethyl ether
18.56	4-chlorostyrene	6.72	ethylene glycol monomethyl ether
16.07	2-chlorotoluene	3.50	ethyl ether
16.07	3-chlorotoluene	3.56	ethyl formate
16.07	4-chlorotoluene	17.42	2-ethyl-1-hexanol
7.03	crotonaldehyde	21.38	α-ethylphenethyl alcohol
8.32	cyclohexane	21.71	β-ethylphenethyl alcohol
14.26	cyclohexanol	9.42	ethyl propionate
14.26	cyclohexanone	3.50	ethyl vinyl ether
11.56	cyclopentanol	8.36	fluorobenzene
11.42	cyclopentanone	3.23	fluorotrichloromethane (Freon 11)
11.90	2,4-dimethyl-3-pentanone	3.36	furan
	(diisopropyl ketone)	12.54	furfural
16.26	2,6-dimethyl-4-heptanone	13.25	furfuryl alcohol
	(diisobutyl ketone)	9.10	glycidol
17.12	decane	7.56	glyme (propylene glycol dimethyl ether)
25.84	1,10-decanediol	14.52	heptanal
21.85	1-decanol	9.58	heptane
18.50	1,2-dibromo-3-chloropropane (DBCP)	21.03	1,7-heptanediol
12.10	1,2-dibromoethane (EDB)	16.13	1-heptanol
8.93	dibromomethane	14.61	2-heptanol
17.81	1,2-dichlorobenzene	14.54	3-heptanol
17.20	1,3-dichlorobenzene	14.26	2-heptanone
17.31	1,4-dichlorobenzene	14.19	3-heptanone
14.91	trans-1,4-dichloro-2-butene	13.88	4-heptanone
5.02	1,1-dichloroethane	16.13	trans-2-hepten-1-ol
7.17	1,2-dichloroethane (ethylene dichloride)	16.02	cis-4-hepten-1-ol
3.75	1,1-dichloroethylene (vinylidene chloride)	21.46	hexachloro-1,3-butadiene
5.98	cis-1,2-dichloroethylene	26.88	hexadecane
6.17	trans-1,2-dichloroethylene	11.88	hexanal
8.55	1,1-dichloropropane	6.25	hexane
8.93	1,2-dichloropropane	19.17	1,6-hexanediol
11.35	1,3-dichloropropane	13.81	1-hexanol
6.34	2,2-dichloropropane	12.06	2-hexanol
7.85	1,1-dichloropropene	11.97	3-hexanol
10.20	cis-1,3-dichloropropene	11.60	2-hexanone
10.80	trans-1,3-dichloropropene	11.52	3-hexanone
15.60	diethylene glycol	13.81	cis-2-hexen-1-ol
20.26	diethylene glycol monobutyl ether	13.51	cis-3-hexen-1-ol
16.60	diethylene monoethyl ether	12.76	4-hexen-3-one
15.09	diethylene monomethyl ether	12.89	4-hydroxy-4-methyl-2-pentanone
8.68	diglyme (diethylene glycol dimethyl ether)	17.87	iodobenzene
20.02	1,3-diisopropylbenzene	3.75	iodomethane
20.42	1,4-diisopropylbenzene	13.97	iso-amyl acetate
10.80	DMF (dimethylformamide)	6.74	iso-butanol
11.94	DMSO (methylsulfoxide)	11.30	iso-butyl acetate
9.18	1,4-dioxane	17.31	iso-butylbenzene
4.09	1,3-dioxolane	9.27	iso-octane
20.85	dodecane	19.31	isophorone
9.35	epichlorohydrin	3.22	iso-propanol
2.68	ethanol	7.88	iso-propyl acetate
9.39	2-ethoxyethanol (cellosolve)	6.21	iso-propyl ether
14.40	2-ethoxyethyl acetate	15.43	iso-propylbenzene (cumene)
6.21	ethyl acetate	4.68	methacrolein
8.93	ethyl acrylate	5.36	methacrylonitrile
13.90	ethylbenzene	2.15	methanol
20.15	ethyl benzoate	6.74	2-methoxyethanol (methyl cellosolve)
8.54	ethylene glycol	3.79	methyl acetate
14.68	ethylene glycol monobutyl ether	18.76	methyl benzoate

Retention Time	Compound	Retention Time	Compound
10.30	2-methyl-1-butanol (active amyl alcohol)	18.18	propionic acid
7.14	2-methyl-2-butanol (tert-amyl alcohol)	4.43	propionitrile
10.17	3-methyl-1-butanol (iso-amyl alcohol)	4.57	2-propyn-1-ol (propargyl alcohol)
7.60	3-methyl-2-butanone	9.47	propyl acetate
6.17	2-methyl-3-buten-2-ol	16.07	propylbenzene
11.33	3-methyl-2-buten-1-ol	21.91	propyl benzoate
14.81	2-methylbutyl acetate	9.05	propyl ether
3.85	methylene chloride	9.90	propylene glycol (1,2-propanediol)
2.44	methyl formate	6.48	propyl formate
15.55	5-methyl-3-heptanone	12.25	propyl propionate
13.46	5-methyl-2-hexanone	10.21	pyridine
10.59	2-methyl-3-pentanone	5.80	sec-butanol
10.22	4-methyl-2-pentanone	10.91	sec-butyl acetate
	(MIBK; methyl isobutyl ketone)	17.37	sec-butylbenzene
10.93	4-methyl-2-pentanol	14.55	styrene
11.90	4-methyl-3-penten-3-one	18.24	styrene oxide
18.03	α -methylphenyl alcohol	8.68	tert-amyl methyl ether
6.78	methyl propionate	3.72	tert-butanol
17.21	1-methyl-2-pyrrolidone	9.32	tert-butyl acetate
16.62	α -methylstyrene	16.99	tert-butylbenzene
16.99	4-methylstyrene	6.85	tert-butyl ethyl ether
5.06	methyl tert-butyl ether (MTBE)	18.97	4-tert-butyltoluene
13.62	morpholine	23.35	1,2,4,5-tetrachlorobenzene
18.84	nonanal	13.43	1,1,1,2-tetrachloroethane
14.95	nonane	14.67	1,1,2,2-tetrachloroethane
24.33	1,9-nonanediol	12.66	tetrachloroethylene
20.11	1-nonanol	24.06	tetradecane
18.56	nitrobenzene	9.35	tetrahydropyran
20.02	2-nitrotoluene	6.75	THF (tetrahydrofuran)
20.72	3-nitrotoluene	18.23	m-tolualdehyde
21.05	4-nitrotoluene	18.23	o-tolualdehyde
16.80	octanal	18.50	p-tolualdehyde
12.48	octane	11.33	toluene
22.73	1,8-octanediol	21.28	1,2,3-trichlorobenzene
18.21	1-octanol	20.63	1,2,4-trichlorobenzene
16.46	2-octanone	19.85	1,3,5-trichlorobenzene
16.46	3-octanone	7.56	1,1,1-trichloroethane
26.38	pentachlorobenzene	11.00	1,1,2-trichloroethane
25.51	pentadecane	9.22	trichloroethylene
8.76	pentanal (valeraldehyde)	14.84	1,2,3-trichloropropane
3.51	pentane	4.09	1,1,2-trichlorotrifluoroethane (Freon 113)
17.17	1,5-pentanediol	22.51	tridecane
8.66	2,3-pentanedione	8.93	triethylamine
11.11	1-pentanol	20.75	triglyme (triethylene glycol dimethyl ether)
9.10	2-pentanol	17.61	1,2,3-trimethylbenzene (hemimellitene)
9.10	3-pentanol	16.99	1,2,4-trimethylbenzene (pseudocumene)
8.46	2-pentanone	16.41	1,3,5-trimethylbenzene (mesitylene)
8.80	3-pentanone	19.07	undecane
8.54	1-penten-3-ol	4.09	vinyl acetate
11.11	2-penten-1-ol	14.11	m-xylene
8.40	1-penten-3-one (ethyl vinyl ketone)	14.69	o-xylene
5.09	3-penten-2-one (methyl vinyl ketone)	14.11	p-xylene
18.51	pentyl ether		
20.92	2-phenoxyethanol		
21.36	4-phenyl-2-butanone (benzyl acetone)		
9.95	1,3-propanediol		
4.44	1-propanol		
4.09	2-propen-1-ol (allyl alcohol)		
3.11	propionaldehyde		

DB-1 - Retention

Column: DB-1
30 m x 0.53 mm I.D., 3 µm
P/N: 125-1034
Oven: 40°C for 5 min
 40-260°C at 10°/min
Carrier: Helium
 at 30 cm/sec (40°C)
Injector: Split 1:10, 250°C
Detector: FID, 300°C

Retention Time	Compound
2.15	methanol
2.16	acetaldehyde
2.44	methyl formate
2.68	ethanol
2.87	acetonitrile
2.98	acrolein
3.05	acetone
3.11	propionaldehyde
3.22	iso-propanol
3.23	fluorotrichloromethane (Freon 11)
3.36	furan
3.43	acrylonitrile
3.50	ethyl ether
3.50	ethyl vinyl ether
3.51	n-pentane
3.56	ethyl formate
3.72	tert-butanol
3.75	bromoethane
3.75	1,1-dichloroethylene (vinylidene chloride)
3.75	iodomethane
3.79	methyl acetate
3.85	methylene chloride
3.96	3-chloropropene (allyl chloride)
4.09	2-propen-1-ol (allyl alcohol)
4.09	carbon disulfide
4.09	vinyl acetate
4.09	1,3-dioxolane
4.09	1,1,2-trichlorotrifluoroethane (Freon 113)
4.37	iso-butyraldehyde
4.43	propionitrile
4.44	1-propanol
4.57	2-propyn-1-ol (propargyl alcohol)
4.68	methacrolein
4.79	bromochloromethane
5.02	1,1-dichloroethane
5.06	methyl tert-butyl ether (MTBE)
5.09	3-penten-2-one (methyl vinyl ketone)
5.09	2,3-butanedione (diacetal)
5.29	butyraldehyde
5.36	methacrylonitrile
5.41	2-butanone (MEK; methyl ethyl ketone)
5.80	sec-butanol
5.98	cis-1,2-dichloroethylene
6.00	allyl ethyl ether
6.17	trans-1,2-dichloroethylene

Retention Time	Compound
6.17	2-methyl-3-buten-2-ol
6.21	ethyl acetate
6.21	iso-propyl ether
6.25	n-hexane
6.34	chloroform
6.34	2,2-dichloropropane
6.48	propyl formate
6.72	ethylene glycol methyl ether
6.74	iso-butanol
6.74	2-methoxyethanol (methyl cellosolve)
6.75	THF (tetrahydrofuran)
6.78	methyl propionate
6.85	tert-butyl ethyl ether
6.85	butyl methyl ether
6.95	3-buten-1-ol
7.03	crotonaldehyde
7.14	2-methyl-2-butanol (tert-amyl alcohol)
7.17	1,2-dichloroethane (ethylene dichloride)
7.56	1,1,1-trichloroethane
7.56	1-chlorobutane
7.56	glyme (propylene glycol dimethyl ether)
7.60	3-methyl-2-butanone
7.85	1,1-dichloropropene
7.88	iso-propyl acetate
7.90	1-butanol
7.99	2-buten-1-ol (crotyl alcohol)
8.00	benzene
8.18	carbon tetrachloride
8.32	cyclohexane
8.36	fluorobenzene
8.40	1-penten-3-one (ethyl vinyl ketone)
8.46	2-pentanone
8.54	ethylene glycol
8.54	1-penten-3-ol
8.55	1,1-dichloropropane
8.66	2,3-pentanedione
8.68	tert-amyl methyl ether
8.68	diglyme (diethylene glycol dimethyl ether)
8.76	pentanal (valeraldehyde)
8.80	3-pentanone
8.93	ethyl acrylate
8.93	1,2-dichloropropane
8.93	dibromomethane
8.93	triethylamine
9.05	allyl ether
9.05	propyl ether
9.10	glycidol
9.10	2-pentanol
9.10	3-pentanol
9.18	1,4-dioxane
9.18	butyl ethyl ether
9.22	bromodichloromethane
9.22	trichloroethylene
9.27	iso-octane
9.32	tert-butyl acetate
9.35	epichlorohydrin
9.35	ethylene glycol ethyl ether
9.35	tetrahydropyran

Retention Time	Compound
9.39	2-ethoxyethanol (cellosolve)
9.42	ethyl propionate
9.47	propyl acetate
9.58	n-heptane
9.90	propylene glycol (1,2-propanediol)
9.95	1,3-propanediol
10.17	3-methyl-1-butanol (iso-amyl alcohol)
10.20	cis-1,3-dichloropropene
10.21	pyridine
10.21	acetal (acetaldehyde diethyl acetal)
10.22	4-methyl-2-pentanone (MIBK; methyl isobutyl ketone)
10.30	2-methyl-1-butanol (active amyl alcohol)
10.59	2-methyl-3-pentanone
10.80	trans-1,3-dichloropropene
10.80	DMF (dimethylformamide)
10.91	sec-butyl acetate
10.93	4-methyl-2-pentanol
11.00	1,1,2-trichloroethane
11.11	1-pentanol
11.11	2-penten-1-ol
11.30	iso-butyl acetate
11.33	3-methyl-2-buten-1-ol
11.33	toluene
11.35	1,3-dichloropropane
11.40	2,3-butanediol
11.42	cyclopentanone
11.52	3-hexanone
11.56	cyclopentanol
11.60	2-hexanone
11.81	chlorodibromomethane
11.88	hexanal
11.90	4-methyl-3-penten-3-one
11.90	2,4-dimethyl-3-pentanone (diisopropyl ketone)
11.94	DMSO (methyl sulfoxide)
11.97	3-hexanol
12.06	2-hexanol
12.10	1,2-dibromoethane (EDB)
12.25	propyl propionate
12.36	butyl acetate
12.48	n-octane
12.54	furfural
12.66	tetrachloroethylene
12.76	4-hexen-3-one
12.89	4-hydroxy-4-methyl-2-pentanone
13.25	furfuryl alcohol
13.30	1,3-butanediol
13.43	1,1,1,2-tetrachloroethane
13.44	chlorobenzene
13.46	5-methyl-2-hexanone
13.51	cis-3-hexen-1-ol
13.62	morpholine
13.69	1-chlorohexane

Retention Time	Compound	Retention Time	Compound	Retention Time	Compound
13.81	1-hexanol	16.99	1,2,4-trimethylbenzene (pseudocumene)	21.71	β -ethylphenethyl alcohol
13.81	cis-2-hexen-1-ol	17.12	n-decane	21.85	1-decanol
13.88	4-heptanone	17.17	1,5-pentanediol	21.91	propyl benzoate
13.90	ethylbenzene	17.20	1,3-dichlorobenzene	22.51	n-tridecane
13.97	iso-amyl acetate	17.21	1-methyl-2-pyrrolidone	22.73	1,8-octanediol
14.04	amyl acetate	17.31	iso-butylbenzene	23.35	1,2,4,5-tetrachlorobenzene
14.11	m-xylene	17.31	1,4-chlorobenzene	24.06	n-tetradecane
14.11	p-xylene	17.37	sec-butylbenzene	24.33	1,9-nonanediol
14.19	3-heptanone	17.42	benzyl alcohol	25.51	n-pentadecane
14.20	bromoform	17.42	2-ethyl-1-hexanol	25.84	1,10-decanediol
14.26	cyclohexanol	17.61	1,2,3-trimethylbenzene (hemimellitene)	26.38	pentachlorobenzene
14.26	cyclohexanone	17.81	1,2-dichlorobenzene	26.88	n-hexadecane
14.26	2-heptanone	17.87	iodobenzene	27.72	benzyl ether
14.39	butyl ether	18.03	α -methylphenyl alcohol		
14.40	2-ethoxyethyl acetate	18.13	acetophenone		
14.52	heptanal	18.18	propionic acid		
14.54	3-heptanol	18.21	1-octanol		
14.55	styrene	18.23	m-tolualdehyde		
14.61	2-heptanol	18.23	o-tolualdehyde		
14.67	1,1,2,2-tetrachloroethane	18.24	styrene oxide		
14.68	ethylene glycol butyl ether	18.24	butylbenzene		
14.69	o-xylene	18.50	1,2-dibromo-3-chloropropane (DBCP)		
14.72	2-butoxyethanol (butyl cellosolve)	18.50	p-tolualdehyde		
14.81	2-methylbutyl acetate	18.51	pentyl ether		
14.84	1,2,3-trichloropropane	18.56	4-chlorostyrene		
14.91	trans-1,4-dichloro-2-butene	18.56	nitrobenzene		
14.95	n-nonane	18.76	methyl benzoate		
15.03	1,4-butanediol	18.84	nonanal		
15.09	diethylene glycol methyl ether	18.97	4-tert-butyltoluene		
15.43	iso-propylbenzene (cumene)	19.07	n-undecane		
15.54	bromobenzene	19.17	1,6-hexanediol		
15.55	5-methyl-3-heptanone	19.31	isophorone		
15.60	diethylene glycol	19.61	acrylic acid		
15.88	benzaldehyde	19.85	1,3,5-trichlorobenzene		
16.02	cis-4-hepten-1-ol	19.86	benzyl acetate		
16.07	2-chlorotoluene	20.02	1,3-diisopropylbenzene		
16.07	3-chlorotoluene	20.02	2-nitrotoluene		
16.07	4-chlorotoluene	20.11	1-nonanol		
16.07	propylbenzene	20.15	ethyl benzoate		
16.13	trans-2-hepten-1-ol	20.26	diethylene glycol butyl ether		
16.13	1-heptanol	20.42	1,4-diisopropylbenzene		
16.26	benzonitrile	20.63	1,2,4-trichlorobenzene		
16.26	2,6-dimethyl-4-heptanone	20.72	3-nitrotoluene		
	(diisobutyl ketone)	20.75	triglyme (triethylene glycol dimethyl ether)		
16.41	1,3,5-trimethylbenzene (mesitylene)	20.85	n-dodecane		
16.46	2-octanone	20.92	2-phenoxyethanol		
16.46	3-octanone	21.03	1,7-heptanediol		
16.60	diethylene glycol ethyl ether	21.05	4-nitrotoluene		
16.62	α -methylstyrene	21.28	1,2,3-trichlorobenzene		
16.80	octanal	21.34	1-chloro-4-nitrobenzene		
16.87	acetic acid	21.36	4-phenyl-2-butanone (benzyl acetone)		
16.99	tert-butylbenzene	21.38	α -ethylphenethyl alcohol		
16.99	4-methylstyrene	21.46	hexachloro-1,3-butadiene		

DB-WAX - Alphabetical

Column: DB-WAX
30 m x 0.53 mm I.D., 1 µm

P/N: 125-7032

Oven: 40°C for 5 min
40-230°C at 10°/min
230°C for 7 min

Carrier: Helium
at 34 cm/sec (40°C)

Injector: Split 1:10, 250°C

Detector: FID, 300°C

Retention Time	Compound
5.09	acetal (acetaldehyde diethyl acetal)
2.47	acetaldehyde
16.87	acetic acid
3.60	acetone
8.12	acetonitrile
20.13	acetophenone
4.10	acrolein
19.61	acrylic acid
7.81	acrylonitrile
6.04	allyl ether
3.05	allyl ethyl ether
10.96	amyl acetate
17.25	benzaldehyde
6.46	benzene
19.55	benzonitrile
21.01	benzyl acetate
22.82	benzyl alcohol
30.41	benzyl ether
15.47	bromobenzene
9.26	bromochloromethane
11.76	bromodichloromethane
2.95	bromoethane
17.00	bromoform
20.96	1,3-butanediol
23.14	1,4-butanediol
18.70	2,3-butanediol
7.44	2,3-butanedione (diacetal)
11.48	1-butanol
5.35	2-butanone (MEK; methyl ethyl ketone)
12.95	2-buten-1-ol (crotyl alcohol)
12.02	3-buten-1-ol
16.31	2-butoxyethanol (butyl cellosolve)
9.85	butyl acetate
14.81	butylbenzene
6.97	butyl ether
3.27	butyl ethyl ether
2.80	butyl methyl ether
4.72	butyraldehyde
2.65	carbon disulfide
4.85	carbon tetrachloride
13.00	chlorobenzene
3.99	1-chlorobutane
14.52	chlorodibromomethane
8.58	chloroform

Retention Time	Compound
9.10	1-chlorohexane
23.97	1-chloro-4-nitrobenzene
3.46	3-chloropropene (allyl chloride)
18.19	4-chlorostyrene
14.71	2-chlorotoluene
14.90	3-chlorotoluene
14.90	4-chlorotoluene
9.07	crotonaldehyde
2.27	cyclohexane
16.31	cyclohexanol
14.61	cyclohexanone
14.57	cyclopentanol
12.46	cyclopentanone
7.63	decane
34.11	1,10-decanediol
21.12	1-decanol
20.57	1,2-dibromo-3-chloropropane (DBCP)
13.80	1,2-dibromoethane (EDB)
11.98	dibromomethane
17.80	1,2-dichlorobenzene
16.60	1,3-dichlorobenzene
17.06	1,4-dichlorobenzene
17.00	trans-1,4-dichloro-2-butene
9.10	1,1-dichloroethane
7.20	1,2-dichloroethane (ethylene dichloride)
2.65	1,1-dichloroethylene (vinylidene chloride)
7.84	cis-1,2-dichloroethylene
4.38	trans-1,2-dichloroethylene
9.71	1,1-dichloropropane
4.95	1,2-dichloropropane
12.38	1,3-dichloropropane
3.99	2,2-dichloropropane
4.56	1,1-dichloropropene
11.27	cis-1,3-dichloropropene
12.78	trans-1,3-dichloropropene
23.91	diethylene glycol
21.74	diethylene glycol monobutyl ether
19.48	diethylene glycol monoethyl ether
19.06	diethylene glycol monomethyl ether
6.04	diglyme (diethylene glycol dimethyl ether)
15.47	1,3-diisopropylbenzene
16.20	1,4-diisopropylbenzene
7.94	2,4-dimethyl-3-pentanone (diisopropyl ketone)
12.03	2,6-dimethyl-4-heptanone (diisobutyl ketone)
9.65	1,4-dioxane
7.09	1,3-dioxolane
15.25	DMF (dimethylformamide)
19.21	DMSO (methyl sulfoxide)
12.23	dodecane
11.69	epichlorohydrin
6.46	ethanol
13.11	2-ethoxyethanol (cellosolve)
14.31	2-ethoxyethyl acetate
5.03	ethyl acetate
7.87	ethyl acrylate
11.13	ethylbenzene

Retention Time	Compound
20.27	ethyl benzoate
19.47	ethylene glycol
16.24	ethylene glycol monobutyl ether
13.11	ethylene glycol monoethyl ether
12.24	ethylene glycol monomethyl ether
2.13	ethyl ether
3.78	ethyl formate
17.41	2-ethyl-1-hexanol
23.10	α-ethylphenethyl alcohol
24.12	β-ethylphenethyl alcohol
6.93	ethyl propionate
2.39	ethyl vinyl ether
7.72	fluorobenzene
2.13	fluorotrichloromethane (Freon 11)
3.27	furan
18.32	furfural
19.90	furfuryl alcohol
17.25	glycidol
6.04	glyme (propylene glycol dimethyl ether)
12.32	heptanal
2.65	heptane
27.26	1,7-heptanediol
16.91	1-heptanol
14.71	2-heptanol
14.29	3-heptanol
12.27	2-heptanone
11.66	3-heptanone
11.06	4-heptanone
17.77	trans-2-hepten-1-ol
17.67	cis-4-hepten-1-ol
17.84	hexachloro-1,3-butadiene
18.70	hexadecane
10.07	hexanal
25.75	1,6-hexanediol
2.05	hexane
15.31	1-hexanol
12.95	2-hexanol
12.49	3-hexanol
10.04	2-hexanone
9.34	3-hexanone
16.31	cis-2-hexen-1-ol
15.87	cis-3-hexen-1-ol
12.55	4-hexen-3-one
15.70	4-hydroxy-4-methyl-2-pentanone
18.30	iodobenzene
3.46	iodomethane
10.96	iso-amyl acetate
10.31	iso-butanol
8.36	iso-butyl acetate
13.47	iso-butylbenzene
3.54	iso-butyraldehyde
2.44	iso-octane
19.47	isophorone
6.28	iso-propanol
5.32	iso-propyl acetate
12.13	iso-propylbenzene (cumene)
3.27	iso-propyl ether
4.83	methacrolein

7.54	methacrylonitrile	7.44	2-pentanone	7.84	trichloroethylene
5.40	methanol	7.44	3-pentanone	17.06	1,2,3-trichloropropane
12.25	2-methoxyethanol (methyl cellosolve)	11.77	1-penten-3-ol	2.13	1,1,2-trichlorotrifluoroethane (Freon 113)
3.78	methyl acetate	14.65	2-penten-1-ol	14.09	tridecane
19.70	methyl benzoate	8.56	1-penten-3-one (ethyl vinyl ketone)	3.26	triethylamine
12.73	2-methyl-1-butanol (active amyl alcohol)	6.61	3-penten-2-one (methyl vinyl ketone)	20.77	triglyme (triethylene glycol dimethyl ether)
8.43	2-methyl-2-butanol (tert-amyl alcohol)	12.66	pentyl ether	15.29	1,2,3-trimethylbenzene (hemimellitene)
12.73	3-methyl-1-butanol (iso-amyl alcohol)	26.14	2-phenoxyethanol	14.27	1,2,4-trimethylbenzene (pseudocumene)
6.15	3-methyl-2-butanone	22.76	4-phenyl-2-butanone (benzyl acetone)	13.55	1,3,5-trimethylbenzene (mesitylene)
9.11	2-methyl-3-buten-2-ol	18.97	1,3-propanediol	10.10	undecane
14.82	3-methyl-2-buten-1-ol	9.11	1-propanol	5.03	vinyl acetate
12.05	2-methylbutyl acetate	10.78	2-propen-1-ol (allyl alcohol)	11.44	m-xylene
6.18	methylene chloride	3.25	propionaldehyde	12.39	o-xylene
2.85	methyl formate	18.18	propionic acid	11.30	p-xylene
12.38	5-methyl-3-heptanone	8.72	propionitrile		
11.40	5-methyl-2-hexanone	7.38	propyl acetate		
7.94	2-methyl-3-pentanone	12.86	propylbenzene		
8.19	4-methyl-2-pentanone	21.46	propyl benzoate		
	(MIBK; methyl isobutyl ketone)	18.96	propylene glycol (1,2-propanediol)		
11.89	4-methyl-2-pentanol	3.05	propyl ether		
11.26	4-methyl-3-penten-3-one	5.93	propyl formate		
22.00	α -methylphenyl alcohol	9.17	propyl propionate		
5.54	methyl propionate	15.16	2-propyn-1-ol (propargyl alcohol)		
15.13	α -methylstyrene	12.44	pyridine		
15.61	4-methylstyrene	8.77	sec-butanol		
20.71	1-methyl-2-pyrrolidone	7.69	sec-butyl acetate		
2.30	methyl tert-butyl ether (MTBE)	13.64	sec-butylbenzene		
13.62	morpholine	13.80	styrene		
21.41	nitrobenzene	19.46	styrene oxide		
22.62	2-nitrotoluene	3.27	tert-amyl methyl ether		
21.92	3-nitrotoluene	5.54	tert-butanol		
23.14	4-nitrotoluene	5.40	tert-butyl acetate		
16.05	nonanal	13.41	tert-butylbenzene		
4.97	nonane	2.47	tert-butyl ethyl ether		
31.29	1,9-nonanediol	15.13	4-tert-butyltoluene		
19.80	1-nonanol	22.08	1,2,4,5-tetrachlorobenzene		
14.29	octanal	13.80	1,1,1,2-tetrachloroethane		
3.22	octane	17.73	1,1,2,2-tetrachloroethane		
29.06	1,8-octanediol	8.58	tetrachloroethylene		
18.40	1-octanol	15.75	tetradecane		
14.20	2-octanone	5.83	tetrahydropyran		
13.66	3-octanone	4.45	THF (tetrahydrofuran)		
25.09	pentachlorobenzene	19.77	m-tolualdehyde		
17.28	pentadecane	19.73	o-tolualdehyde		
7.46	pentanal (valerlaldehyde)	20.13	p-tolualdehyde		
1.89	pentane	9.06	toluene		
24.43	1,5-pentanediol	21.25	1,2,3-trichlorobenzene		
9.49	2,3-pentanedione	20.03	1,2,4-trichlorobenzene		
13.54	1-pentanol	18.19	1,3,5-trichlorobenzene		
10.94	2-pentanol	4.85	1,1,1-trichloroethane		
10.66	3-pentanol	13.80	1,1,2-trichloroethane		

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