

## Volatile Organic Compounds Retention Time Index: Rtx®-VMS

Data collected using a 60m, 0.25mm ID, 1.4µm Rtx®-VMS column; Oven: 40°C (hold 6 min.) to 230°C @ 14°C/min. (hold 11 min.); Carrier gas: helium; Regulation: constant pressure; Flow rate: 1mL/min.; Linear velocity: 21cm/sec.; Dead time: 4.90 min.

## for more info

See pages 548–551 for Rtx®-VMS volatile organics chromatograms.

Compound	Rtx®-VMS Ret. Time	Compound	Rtx®-VMS Ret. Time	Compound	Rtx®-VMS Ret. Time
dichlorodifluoromethane	5.52	benzene-d6	14.72	bromoform	20.30
chloromethane	6.26	pentafluorobenzene	14.75	isopropylbenzene	20.51
vinyl chloride	6.54	1,2-dichloroethane-d4	14.79	1,2-butanediol	20.82
water	6.70	1,2-dichloroethane	14.90	valeric acid	20.89
bromomethane	7.61	tert-amyl-methyl ether	15.00	1,4-dichlorobutane	20.90
methanol	7.93	isobutyl alcohol	15.06	bromobenzene	20.91
2-methylbutane	7.96	fluorobenzene	15.16	4-bromo-1-fluorobenzene	20.95
chloroethane	8.00	isopropyl acetate	15.34	cis-1,4-dichloro-2-butene	20.97
trichlorofluoromethane	8.41	formic acid	15.37	n-decane	21.04
n-pentane	8.61	trichloroethene	15.39	n-propylbenzene	21.07
diethylether	9.59	1,4-difluorobenzene	15.58	1,1,1,2-tetrachloroethane	21.10
1,1-dichloroethene	9.64	n-butanol	15.60	1,3,5-trimethylbenzene	21.30
carbon disulfide	9.65	methyl cyclohexane	15.78	1-ethyl-4-methylbenzene	21.33
Freon® 113	9.70	acetic acid	15.93	1-ethyl-3-methylbenzene	21.34
ethanol	9.74	dibromomethane	16.05	1,2,3-trichloropropane	21.39
iodomethane	9.99	1,2-dichloropropane	16.17	trans-1,4-dichloro-2-butene	21.40
3-chlorotrifluoropropane	10.45	bromodichloromethane	16.23	2-chlorotoluene	21.40
chloro-methyl-methylether	10.54	methyl methacrylate	16.28	4-chlorotoluene	21.61
acrolein	10.57	α,α,α-trifluorotoluene	16.45	cyclohexane	21.78
2-methylpentane	10.59	1,4-dioxane	16.49	tert-butylbenzene	21.81
allyl chloride	10.72	n-propyl acetate	16.70	1-ethyl-2-methylbenzene	21.82
methylene chloride	10.98	2-chloroethyl-vinyl-ether	16.92	1,2,4-trimethylbenzene	21.88
3-methylpentane	11.09	2-chloroethanol	16.93	pentachloroethane	21.92
acetone	11.24	cis-1,3-dichloropropene	17.04	1,3-dichloro-2-propanol	22.05
trans-1,2-dichloroethene	11.24	1-bromo-2-chloroethane	17.05	sec-butylbenzene	22.06
methyl tert-butyl ether	11.42	n-octane	17.17	isocaproic acid	22.09
2-propanol	11.52	toluene-d8	17.28	p-isopropyltoluene	22.22
tert-butyl alcohol	11.56	toluene	17.36	1,3-dichlorobenzene	22.53
methyl acetate	11.63	propionic acid	17.61	caproic acid	22.55
hexane	11.64	chloroacetone	17.64	1,4-dichlorobenzene	22.64
acetonitrile	12.22	4-methyl-2-pentanone	17.76	n-butylbenzene	22.88
chloroprene	12.30	2-bromo-1-chloropropane	17.81	malononitrile	22.89
1,1-dichloroethane	12.42	2-nitropropane	17.83	benzyl chloride	23.23
acrylonitrile	12.60	pyridine	17.86	1,2-dichlorobenzene-d4	23.36
diisopropyl ether	12.62	1,1-dichloropropanone	17.88	1,2-dichlorobenzene	23.38
2,4-dimethylpentane	12.68	trans-1,3-dichloropropene	17.88	hexachloroethane	23.63
vinyl acetate	13.02	tetrachloroethene	17.89	1-octanol	23.70
ethyl-tert-butyl ether	13.08	ethyl methacrylate	17.92	bis-(2-chloro-isopropyl) ether	24.06
1-propanol	13.18	1,1,2-trichloroethane	18.11	4-bromo-1-chlorobenzene	24.09
cis-1,2-dichloroethene	13.32	dibromochloromethane	18.40	benzyl alcohol	24.23
allyl alcohol	13.35	1,3-dichloropropane	18.49	heptanoic acid	24.29
2,2-dichloropropane	13.48	isobutyric acid	18.55	n-dodecane	24.54
bromochloromethane	13.62	1,2-dibromoethane	18.78	3-bromochlorobenzene	24.61
chloroform	13.75	n-butyl acetate	18.80	1,2-dibromo-3-chloropropane	24.78
cyclohexane	13.84	2-hexanone	18.82	2-bromochlorobenzene	25.54
methyl acrylate	13.87	butyric acid	19.17	hexachlorobutadiene	25.99
carbon tetrachloride	13.94	1-chloro-3-fluorobenzene	19.17	nitrobenzene	26.02
tetrahydrofuran	14.03	ethylbenzene	19.36	1,2,4-trichlorobenzene	26.19
1,1,1-trichloroethane	14.06	chlorobenzene	19.39	benzyl acetate	26.29
ethyl acetate	14.13	1-chloro-4-fluorobenzene	19.39	n-tridecane	26.51
2-butanone	14.18	ethylbenzene-d10	19.40	naphthalene	27.01
dibromofluoromethane	14.18	1-chlorohexane	19.41	1,2,3-trichlorobenzene	27.46
1,1-dichloropropene	14.20	1,1,1,2-tetrachloroethane	19.44	n-tetradecane	28.83
propargyl alcohol	14.35	m-xylene	19.53	2-methylnaphthalene	30.36
1-chlorobutane	14.51	p-xylene	19.54	1-methylnaphthalene	30.96
2,2,4-trimethylpentane	14.53	chlorobenzene-d5	19.55	n-pentadecane	31.65
propionitrile	14.59	1-chloro-2-fluorobenzene	19.67	2-chloronaphthalene	33.36
benzene	14.60	o-xylene	20.13		
n-heptane (C7)	14.62	stryrene	20.17		
methacrylonitrile	14.64	isovaleric acid	20.18		