

NATURAL CHEMICAL INGREDIENTS IN AROMATIC PLANTS EXTRACTS

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NAME	CAS NUMBER	MOL. WEIGHT	C	H	O	DENSITY	ODOR 100%	APPEARANCE	BOILING POINT @ 760 mm Hg	MELTING POINT	ORAL TOXICITY	DERMAL TOXICITY	FLASH POINT	ALCOHOL SOLUBILITY
						kg/l					oral rat mg/kg	rabbit skin mg/kg		

HYDROCARBONS

NONTERPENE HYDROCARBONS

styrene	100-42-5	104.15	8	8	0	0.902	balsamic	colorless clear liquid	145° C	no	2650	no	31° C	sol
naphthalene	91-20-3	128.17	10	8	0	1.037	pungent dry tarry	white crystalline solid	218° C	81° C	490	>20000	79° C	sol
nonane	111-84-2	128.26	9	20	0	0.724	gasoline	colorless clear liquid	150° C	no	no	no	31° C	sol
<i>p</i> - α -dimethyl styrene	1195-32-0	132.20	10	12	0	0.872	phenolic	colorless clear liquid	188° C	-28° C	no	no	63° C	sol
<i>p</i> -cymene	99-87-6	134.22	10	14	0	0.861	fresh citrus terpene woody spice	colorless to pale yellow clear liquid	177° C	no	4750	no	47° C	sol
<i>p</i> -menthatriene	18368-95-1	134.22	10	14	0	0.868	turpentine		197° C	no	no	no	54° C	sol
1-methyl naphthalene	90-12-0	142.20	11	10	1	1.016	naphthyl	pale yellow clear liquid	242° C	-22° C	1840	7500	82° C	sol
2-methyl naphthalene	91-57-6	142.20	11	10	1	1.016		white solid	241° C	34° C	1630	no	298° C	sol
chamazulene	529-05-5	184.28	14	16	0	0.975		bluish green clear liquid	299° C	no	no	no	137° C	sol
vetivazulene	489-84-9	198.30	15	18	0	0.961		white solid	304° C	31° C	1550	no	142° C	sol
ar-curcumene	4176-17-4	202.36	15	22	0	0.873			276° C	no	no	no	117° C	sol
abietatriene	19407-28-4	270.45	20	30	0	0.927			345° C	no	no	no	160° C	sol

MONOTERPENES

bornylene	464-17-5	136.23	10	16	0	0.898		white solid	147° C	112° C	no	no	25° C	sol
camphene	79-92-5	136.23	10	16	0	0.880	woody herbal fir needle	colorless crystalline solid	160° C	52° C	5000	3000	35° C	sol
(-)-camphene	5794-04-7	136.23	10	16	0	0.880	woody	colorless crystals	158° C	37° C	no	no	38° C	sol
(+)-camphene	5794-03-6	136.23	10	16	0	0.880	woody	colorless crystals	159° C	45° C	no	no	37° C	sol
δ -2-carene	4497-92-1	136.23	10	16	0	0.879					no	no	38° C	sol
δ -3-carene	13466-78-9	136.23	10	16	0	0.879	sweet citrus	colorless clear liquid	169° C	23° C	4800	no	46° C	sol
l-limonene	601-029-00-7	136.23	10	16	0	0.834	terpene pine herbal peppery	colorless clear liquid	177° C	no	5	5	53° C	sol
d-limonene	601-029-00-7	136.23	10	16	0	0.834	citrus citral fresh sweet	colorless to pale yellow clear liquid	176° C	-96° C	4400	>4999	47° C	sol
myrcene	123-35-3	136.23	10	16	0	0.769	peppery terpene spicy balsam	colorless clear liquid	167° C	no	5	5	40° C	sol
<i>trans</i> - β -ocimene	3779-61-1	136.23	10	16	0	0.776	sweet herbal	colorless to pale yellow clear liquid	175° C	no	no	no	47° C	sol
<i>cis</i> - β -ocimene	3338-55-4	136.23	10	16	0	0.776	warm floral herb flower	colorless to pale yellow clear liquid		no	no	no	57° C	sol
α -phellandrene	99-83-2	136.23	10	16	0	0.835	citrus terpene green black pepper	colorless to pale yellow clear liquid	176° C	no	5700	no	47° C	sol
β -phellandrene	555-10-2	136.23	10	16	0	0.820	mint terpentine	colorless to pale yellow clear liquid	172° C	no	no	no	44° C	sol
α -pinene	80-56-8	136.23	10	16	0	0.879	fresh camphor earthy woody	colorless to pale yellow clear liquid	156° C	-64° C	3700	>5000	32° C	sol
β -pinene	127-91-3	136.23	10	16	0	0.880	dry woody green	colorless clear liquid	165° C	no	4700	no	35° C	sol
sabinene	3387-41-5	136.23	10	16	0	0.880	woody terpene citrus pine spice	colorless to pale yellow clear liquid	164° C	no	no	no	37° C	sol
α -terpinene	99-86-5	136.23	10	16	0	0.845	woody	colorless to pale yellow clear oily liquid	174° C	no	1680	no	46° C	sol
γ -terpinene	99-85-4	136.23	10	16	0	0.845	oily woody terpene herbal	colorless clear oily liquid	182° C	no	3650	>5000	52° C	sol
terpinolene	586-62-9	136.23	10	16	0	0.853	fresh woody sweet pine citrus	colorless clear liquid	185° C	no	4400	>5000	64° C	sol
α -thujene	2867-05-2	136.23	10	16	0	0.935	woody green herb	colorless clear liquid	152° C	no	no	no	33° C	sol
tricyclene	508-32-7	136.23	10	16	0	0.977		colorless solid	153° C	67° C	no	no	23° C	sol

SESQUITERPENES

acordiene	24048-44-0	204.35	15	24	0	0.890			271° C	no	no	no	107° C	sol
α -amorphene	483-75-0	204.35	15	24	0	0.876			272° C	no	no	no	107° C	sol
γ -amorphene	6980-46-7	204.35	15	24	0	0.890			271° C	no	no	no	107° C	sol
aromadendrene	489-39-4	204.35	15	24	0	0.930	woody		259° C	no	no	no	106° C	sol
<i>allo</i> -aromadendrene	25246-27-9	204.35	15	24	0	0.930	woody	colorless clear liquid	258° C	no	no	no	120° C	sol
bergamotene	6895-56-3	204.35	15	24	0	0.890		pale green clear liquid	260° C	no	no	no	101° C	sol
α -bergamotene	17699-05-7	204.35	15	24	0	0.881		pale green clear liquid	260° C	no	no	no	101° C	sol
(E)- α -bergamotene	13474-59-4	204.35	15	24	0	0.881	woody warm tea	pale green clear liquid	260° C	no	no	no	101° C	sol
(E)- β -bergamotene	55123-21-2	204.35	15	24	0	0.890			259° C	no	no	no	101° C	sol
bisabolene	495-62-5	204.35	15	24	0	0.867	balsam citrus spicy	colorless to pale yellow clear oily liquid	504° C	no	>5000	>5000	102° C	sol

α -bisabolene	17627-44-0	204.35	15	24	0	0.859	balsamic spicy	colorless clear liquid	277° C	no	no	no	110° C	sol
(E)- α -bisabolene	25532-79-0	204.35	15	24	0	0.859		colorless to pale yellow clear liquid	276° C	no	no	no	101° C	sol
(Z)- α -bisabolene	29837-07-8	204.35	15	24	0	0.859		colorless to pale yellow clear liquid	276° C	no	no	no	110° C	sol
β -bisabolene	495-61-4	204.35	15	24	0	0.854	balsamic	colorless clear liquid	275° C	no	no	no	109° C	sol
bicyclosquiphellandrene	54324-03-7	204.35	15	24	0	0.890			281° C	no	no	no	111° C	sol
β -bourbonene	5208-59-3	204.35	15	24	0	0.930	herbal woody	colorless to pale yellow clear liquid	256° C	no	no	no	104° C	sol
α -bulnesene	3691-11-0	204.35	15	24	0	0.890				no	no	no	108° C	sol
cadalene	483-78-3	198.30	15	18	0	0.961			300° C	no	no	no	140° C	sol
cadinadiene	29837-12-5	204.35	15	24	0	0.890	spicy fruity mango		280° C	no	no	no	110° C	sol
cadinene	29350-73-0	206.37	15	26	0	0.846	fresh woody longifolone	colorless to yellow clear liquid	262° C	no	>5000	>5000	>100° C	sol
α -cadinene	24406-05-1	204.35	15	24	0	0.876	woody dry		272° C	no	no	no	107° C	sol
β -cadinene	523-47-7	204.35	15	24	0	0.876	green woody		274° C	no	no	no	107° C	sol
δ -cadinene	483-76-1	204.35	15	24	0	0.900	thyme herbal woody dry		280° C	no	no	no	111° C	sol
γ -cadinene	39029-41-9	204.35	15	24	0	0.890	herbal woody		272° C	no	no	no	107° C	sol
α -calacorene	21391-99-1	200.32	15	20	0	0.927	woody	colorless to pale yellow clear liquid	290° C	no	no	no	126° C	sol
γ -calacorene	24048-45-1	200.32	15	20	0	0.927		pale yellow crystalline solid	291° C	no	no	no	127° C	sol
calamenene	483-77-2	200.32	15	20	0	0.900	herb spice		285° C	no	no	no	125° C	sol
caryophyllene	87-44-5	204.35	15	24	0	0.890	sweet woody spice clove dry	colorless clear oily liquid	260° C	no	no	no	93° C	sol
β -caryophyllene	13877-93-5	204.35	15	24	0	0.890	sweet woody spice clove dry	colorless to pale yellow clear oily liquid	256° C	no	no	no	96° C	sol
isocaryophyllene	118-65-0	204.35	15	24	0	0.890	woody spicy		267° C	no	no	no	104° C	sol
cascarilladiene	59742-39-1	204.35	15	24	0	0.890			266° C	no	no	no	104° C	sol
α -cedrene	469-61-4	204.35	15	24	0	0.940	woody cedar sweet fresh	colorless clear oily liquid	262° C	no	no	no	104° C	sol
β -cedrene	546-28-1	204.35	15	24	0	0.930			263° C	no	no	no	110° C	sol
α -chamigrene	19912-83-5	204.35	15	24	0	0.900			273° C	no	no	no	107° C	sol
β -chamigrene	18431-82-8	204.35	15	24	0	0.89			273° C	no	no	no	107° C	sol
α -copaene	3856-25-5	204.35	15	24	0	0.939	woody spice	colorless clear liquid	249° C	no	no	no	43° C	sol
α -cubebene	17699-14-8	204.35	15	24	0	0.940	herbal waxy	colorless clear liquid	245° C	no	no	no	>100° C	sol
β -cubebene	13744-15-5	204.35	15	24	0	0.930	citrus fruity	colorless to pale yellow clear liquid	266° C	no	no	no	113° C	sol
α -curcumene	4176-17-4	202.33	15	22	0	0.873			276° C	no	no	no	117° C	sol
cuparene	16982-00-6	202.33	15	22	0	0.895		colorless clear liquid	268° C	no	no	no	110° C	sol
daucene	16661-00-0	204.35	15	24	0	0.900			276° C	no	no	no	108° C	sol
β -clemene	33880-83-0	204.35	15	24	0	0.862	herbal waxy fresh		252° C	no	no	no	98° C	sol
eremophilene	10219-75-7	204.35	15	24	0	0.890			270° C	no	no	no	106° C	sol
farnesene	502-61-4	204.35	15	24	0	0.807	citrus herbal green	pale yellow to yellow clear liquid	262° C	no	no	no	>100° C	sol
<i>trans</i> - β -farnesene	18794-84-8	204.35	15	24	0	0.807	woody citrus sweet	colorless clear liquid	206° C	no	no	no	110° C	sol
germacrene D	37839-63-7	204.35	15	24	0	0.850			280° C	no	no	no	112° C	sol
guaiene	88-84-6	204.35	15	24	0	0.900	woody dry herbal	green yellow viscous liquid	129° C@12 mm Hg	no	>5000	>5000	110° C	sol
α -gurjunene	489-40-7	204.35	15	24	0	0.940	wood balsam	colorless clear liquid	262° C	no	no	no	93° C	sol
β -himachalene	1461-03-6	204.35	15	24	0	0.900			276° C	no	no	no	108° C	sol
α -humulene	6753-98-6	204.35	15	24	0	0.819	woody	pale yellowish green clear liquid	167° C	no	no	no	90° C	sol
longicyclene	1137-12-8	204.35	15	24	0	0.991			240° C	no	no	no	89° C	sol
longifolone	475-20-7	204.35	15	24	0	0.930	sweet woody medical	colorless to yellow clear oily liquid	255° C	156° C	>5000	>5000	>93° C	sol
α -longipinene	5989-08-2	204.35	15	24	0	0.922			252° C	no	no	no	102° C	sol
β -maaliene	489-29-2	204.35	15	24	0	0.950			258° C	no	no	no	98° C	sol
α -muurolene	10208-80-7	204.35	15	24	0	0.876	woody	colorless to pale yellow clear liquid	272° C	no	no	no	106° C	sol
γ -muurolene	30021-74-0	204.35	15	24	0	0.890	herbal woody spice		271° C	no	no	no	107° C	sol
α -patchoulene	560-32-7	204.35	15	24	0	0.940			262° C	no	no	no	110° C	sol
β -patchoulene	514-51-2	204.35	15	24	0	0.950			261° C	no	no	no	99° C	sol
α -santalene	512-61-8	204.35	15	24	0	0.944	woody	colorless to pale yellow clear liquid	248° C	no	no	no	73° C	sol
β -santalene	511-59-1	204.35	15	24	0	0.890			260° C	no	no	no	101° C	sol
sativene	3650-28-0	204.35	15	24	0	0.930		colorless clear liquid	256° C	no	no	no	105° C	sol

β -selinene	17066-67-0	204.35	15	24	0	0.880	herbal		262° C	no	no	no	102° C	sol
β -sesquiphellandrene	20307-83-9	204.35	15	24	0	0.850	herbal fruity woody	colorless to pale yellow clear liquid	271° C	no	no	no	108° C	sol
seychellene	20085-93-2	204.35	15	24	0	0.930		colorless to pale yellow clear liquid	250° C	no	no	no	101° C	sol
thujopsene	470-40-6	204.35	15	24	0	0.950		pale yellow clear liquid	256° C	no	no	no	106° C	sol
valencene	4630-07-3	204.35	15	24	0	0.890	citrus	pale yellow to yellow clear liquid	274° C	no	>5000	>5000	>110° C	sol
viridiflorene	21747-46-6	204.35	15	24	0	0.940		colorless clear liquid	269° C	no	no	no	101° C	sol
α -ylangene	14912-44-8	204.35	15	24	0	0.939		pale yellow clear liquid	249° C	no	no	no	105° C	sol
α -zingiberene	495-60-3	204.35	15	24	0	0.854	spice fresh sharp	colorless clear oily liquid	167 °C@50 mm Hg	no	no	no	107° C	sol

DITERPENES

kaurene	34424-57-2	272.48	20	32	0	0.970			344° C	no	no	no	170° C	sol
15-kaurene	511-85-3	272.48	20	32	0	0.970			347° C	no	no	no	170° C	sol
16-kaurene	562-28-7	272.48	20	32	0	0.970			347° C	no	no	no	170° C	sol
sclarene	511-02-4	272.48	20	32	0	0.880			337° C	no	no	no	152° C	sol

HYDROCARBONS

octane	111-65-9	114.23	8	18	0	0.711	gasoline	colorless clear liquid	126° C	-56° C	no	no	16° C	sol
nonane	111-84-2	128.26	9	20	0	0.724	gasoline	colorless clear liquid	151° C	no	no	no	31° C	sol
decane	124-18-5	142.28	10	22	0	0.734		colorless clear liquid	175° C	no	no	no	46° C	sol
undecane	1120-21-4	156.31	11	24	0	0.743		colorless clear liquid	198° C	-11° C	no	no	60° C	sol
dodecane	112-40-3	170.33	12	26	0	0.751	alkane	colorless clear liquid	216° C	-26° C	no	no	71° C	sol
tridecane	629-50-5	184.36	13	28	0	0.758		colorless clear liquid	236° C	-5° C	no	no	79° C	sol
tetradecane	629-59-4	198.39	14	30	0	0.764	mild waxy	colorless clear liquid	254° C	6° C	no	no	99° C	sol
pentadecane	629-62-9	212.41	15	32	0	0.769	waxy	colorless clear liquid	271° C	9° C	no	no	132° C	sol
3-methyl tetradecane	18435-22-8	212.41	15	32	0	0.768			265° C	no	no	no	89° C	sol
hexadecane	544-76-3	226.44	16	34	0	0.773			287° C	20° C	no	no	135° C	sol
heptadecane	629-78-7	240.47	17	36	0	0.777			300° C	21° C	no	no	149° C	sol
octadecane	593-45-3	254.49	18	38	0	0.781		white solid	317° C	29° C	no	no	166° C	sol
nonadecane	629-92-5	268.52	19	40	0	0.784	waxy	white solid	330° C	32° C	no	no	168° C	sol
eicosane	112-95-8	282.55	20	42	0	0.787	waxy	white solid	343° C	37° C	no	no	>110° C	sol
heneicosane	629-94-7	296.57	21	44	0	0.790	waxy	white solid	357° C	40° C	no	no	199° C	sol
docosane	629-97-0	310.60	22	46	0	0.792	waxy	white solid	369° C	44° C	no	no	>110° C	sol
tricosane	638-67-5	324.63	23	48	0	0.795	waxy	white solid	390° C	48° C	no	no	>110° C	sol
tetracosane	646-31-1	338.65	24	50	0	0.797	waxy	white solid	392° C	54° C	no	no	>110° C	sol
pentacosane	629-99-2	352.68	25	52	0	0.799		white solid	402° C	54° C	no	no	>110° C	sol
hexacosane	630-01-3	366.71	26	54	0	0.801	waxy	white solid	412° C	58° C	no	no	257° C	sol
			27	56	0									
octacosane	630-02-4	394.76	28	58	0	0.804		white solid	432° C	63° C	no	no	280° C	sol
nonacosane	630-03-5	408.79	29	60	0	0.805	waxy	white solid	441° C	64° C	no	no	291° C	sol

ALCOHOLS

SATURATED ALCOHOLS

ethanol	64-17-5	46.07	2	6	1	0.780	strong alcoholic ethereal medical	colorless clear liquid	78° C	no	7060	20000	9° C	sol
propyl alcohol	71-23-8	60.10	3	8	1	0.795	alcoholic	colorless clear liquid	97° C	no	1870		15° C	sol
isopropyl alcohol	67-63-0	60.10	3	8	1	0.791	alcoholic	colorless clear liquid	83° C	no	5300	12800	12° C	sol
butyl alcohol	71-36-3	74.12	4	10	1	0.805	fermented	colorless clear liquid	118° C	no	790	3400	35° C	sol
isobutyl alcohol	78-83-1	74.12	4	10	1	0.801	ethereal	colorless clear liquid	108° C	no	2460	3400	28° C	sol
2-butanol	78-92-2	74.12	4	10	1	0.801	sweet apricot	colorless clear liquid	99° C	no	2193	>2000	27° C	sol
amyl alcohol	71-41-0	88.15	5	12	1	0.811	fermented	colorless to pale yellow clear liquid	137° C	-78° C	5660	2830	49° C	sol
isoamyl alcohol	123-51-3	88.15	5	12	1	0.809	fermented	colorless to pale yellow clear liquid	132° C	-116° C	1300	3970	46° C	sol
2-pentanol	6032-29-7	88.15	5	12	1	0.809	fermented	colorless clear liquid	119° C	no	2820	no	34° C	sol
3-methyl-2-butanol	598-75-4	88.15	5	12	1	0.806	fruity	colorless clear liquid	113° C	no	no	no	27° C	sol
2-methyl-1-butanol	137-32-6	88.15	5	12	1	0.809	fruity	colorless clear liquid	129° C	no	no	3540	43° C	sol
hexanol	111-27-3	102.17	6	14	1	0.816	herbal	colorless clear liquid	156° C	no	720	3100	60° C	sol
2-hexanol	626-93-7	102.17	6	14	1	0.814		colorless clear liquid	137° C	no	no	no	46° C	sol
3-hexanol	623-37-0	102.17	6	14	1	0.814	alcoholic	colorless clear liquid	134° C	no	no	no	42° C	sol
3-methyl-2-pentanol	565-60-6	102.17	6	14	1	0.811		colorless clear liquid	134° C	no	no	no	41° C	sol
2-ethyl-4-butanol	589-35-5	102.17	6	14	1	0.814	fermented	colorless clear liquid	152° C	no	no	no	59° C	sol

heptanol	111-70-6	110.15	7	10	1	0.820	green	colorless clear liquid	175° C	no	500	2000	74° C	sol
octanol	111-87-5	130.23	8	18	1	0.823	waxy	colorless clear liquid	195° C	-16° C	3200	1000	81° C	sol
2-octanol	123-96-6	130.23	8	18	1	0.821	spicy	colorless clear oily liquid	180° C	-37° C	3200	no	71° C	sol
3-octanol	589-98-0	130.23	8	18	1	0.821	earthy	colorless clear liquid	175° C	no	>5000	>5000	66° C	sol
6-methyl-3-heptanol	18720-66-6	130.23	8	18	1	0.819		colorless clear liquid	170° C	no	no	no	64° C	sol
2-ethyl-1-hexanol	104-76-7	130.23	8	18	1	0.821	citrus fresh floral	colorless to pale yellow clear liquid	185° C	no	3730	1970	77° C	sol
nonanol	143-08-8	144.25	9	20	1	0.826	fresh clean fatty floral	colorless to pale yellow clear liquid	214° C	-7° C	3560	5660	98° C	sol
2-nonanol	628-99-9	144.25	9	20	1	0.824	waxy	colorless clear oily liquid	193° C	-36° C	no	no	82° C	sol
decanol	112-30-1	158.28	10	22	1	0.828	fatty waxy floral	colorless clear oily liquid	231° C	7° C	4720	3560	83° C	sol
undecanol	112-42-5	172.31	11	24	1	0.829	fresh waxy	colorless clear oily liquid	243° C	12° C	3000	4760	>110° C	sol
2-undecanol	1653-30-1	172.31	11	24	1	0.828	fruity	colorless clear oily liquid	232° C	-10° C	no	no	97° C	sol
dodecanol	112-53-8	186.33	12	26	1	0.831	waxy	colorless clear oily liquid	261° C	24° C	>12800	>10000	>110° C	sol
2-tridecanol	1653-31-2	200.36	13	28	1	0.831		colorless clear oily liquid	257° C	23° C	no	no	102° C	sol
1-pentadecanol	629-76-5	228.41	15	32	1	0.834		white solid	299° C	44° C	no	no	130° C	sol
hexadecanol	36653-82-4	242.44	16	34	1	0.835	waxy floral	white solid	344° C	53° C	5000	>2600	135° C	sol

UNSATURATED ALCOHOLS

2-penten-1-ol	20273-24-9	86.13	5	10	1	0.842	green	colorless clear liquid	140° C	no	no	no	48° C	sol
(Z)-2-penten-1-ol	1576-95-0	86.13	5	10	1	0.842	green	colorless to pale yellow clear liquid	138° C	no	no	no	48° C	sol
1-penten-3-ol	616-25-1	86.13	5	10	1	0.827	green	colorless to pale yellow clear liquid	114° C	no	no	no	25° C	sol
2-methyl-3-buten-2-ol	115-18-4	86.13	5	10	1	0.830	herbal earthy oily	colorless clear liquid	99° C	no	no	no	13° C	sol
2-methyl-3-buten-1-ol	4516-90-9	86.13	5	10	1	0.827		colorless clear liquid	120° C	no	no	no	33° C	sol
2-methyl-2-buten-1-ol	4675-87-0	86.13	5	10	1	0.844	green oily	colorless clear liquid	137° C	no	no	no	50° C	sol
2-hexen-1-ol	2305-21-7	100.16	6	12	1	0.843	fruity green leafy	colorless to pale yellow clear liquid	159° C	no	no	no	62° C	sol
(E)-2-hexen-1-ol	928-95-0	100.16	6	12	1	0.843	green	colorless to pale yellow clear liquid	159° C	no	3500	4500	54° C	sol
(Z)-2-hexen-1-ol	928-94-9	100.16	6	12	1	0.843	green	colorless clear liquid	166° C	no	no	no	70° C	sol
3-hexen-1-ol	544-12-7	100.16	6	12	1	0.843	green leafy	colorless to pale yellow clear liquid	156° C	no	no	no	54° C	sol
(E)-3-hexen-1-ol	928-97-2	100.16	6	12	1	0.843	green	colorless clear liquid	156° C	no	no	no	59° C	sol
(Z)-3-hexen-1-ol	928-96-1	100.16	6	12	1	0.843	green	colorless clear liquid	156° C	no	4700	>5000	44° C	sol
(Z)-4-hexen-1-ol	928-91-6	100.16	6	12	1	0.843	green	colorless clear liquid	159° C	no	no	no	61° C	sol
1-hexen-3-ol	4798-44-1	100.17	6	12	1	0.830	ethereal	colorless clear liquid	135° C	no	no	no	34° C	sol
1-hepten-3-ol	4938-52-7	114.19	7	14	1	0.833	green	colorless to pale yellow clear liquid	154° C	no	no	no	54° C	sol
2-octen-1-ol	22104-78-5	128.21	8	16	1	0.845	green vegetable	colorless clear liquid	195° C	no	no	no	78° C	sol
(E)-2-octen-1-ol	18409-17-1	128.21	8	16	1	0.845	green	colorless clear liquid	195° C	no	no	no	85° C	sol
(Z)-5-octen-1-ol	64275-73-6	128.21	8	16	1	0.845	green	colorless clear liquid	95° C@25 mm Hg	no	>5000	no	85° C	sol
1-octen-3-ol	3391-86-4	128.21	8	16	1	0.834	earthy	colorless to pale yellow clear liquid	175° C	no	340	3300	61° C	sol
(E)-2-nonen-1-ol	31502-14-4	142.24	9	18	1	0.845	waxy green violet melon	colorless clear liquid	110° C@17 mm Hg	no	no	no	102° C	sol
(Z)-2-nonen-1-ol	41453-56-9	142.24	9	18	1	0.845	waxy green	colorless clear liquid	96° C@10 mm Hg	no	no	no	95° C	sol
(Z)-3-nonen-1-ol	10340-23-5	142.24	9	18	1	0.845	waxy green	colorless clear liquid	108° C@20 mm Hg	no	no	no	62° C	sol
2-dodecen-1-ol	22104-81-0	184.32	12	24	1	0.846	fatty	colorless clear liquid	110° C @ 1 mm Hg	no	no	no	110° C	sol

benzyl alcohol	100-51-6	108.14	7	8	1	1.047	floral	colorless clear oily liquid	205° C	-16° C	1230	2000	101° C	sol
<i>m</i> -cresol	108-39-4	108.14	7	8	1	1.038	phenolic	white to amber liquid to crystals	203° C	11° C	242	2050	86° C	sol
<i>p</i> -cresol	106-44-5	108.14	7	8	1	1.038	phenolic	white crystals	202° C	34° C	207	750	89° C	sol
phenethyl alcohol	60-12-8	122.16	8	10	1	1.020	floral	colorless clear oily liquid	221° C@740 mmHg	-26° C	1790	>5000	102° C	sol
guaiacol	90-05-1	124.14	7	8	2	1.109	phenolic	colorless to pale yellow clear oily liquid to solid	205° C	30° C	520	4600	82° C	sol
chavicol	501-92-8	134.17	9	10	1	1.014	phenolic medicinal	colorless clear liquid	237° C	16° C	no	no	102° C	sol
cinnamyl alcohol	104-54-1	134.17	9	10	1	1.048	sweet balsam hyacinth spicy green	pale yellow solid	254° C	34° C	2000	>5000	>93° C	sol
(E)-cinnamyl alcohol	4407-36-7	134.17	9	10	1	1.048	sweet balsam	white to pale yellow solid	248° C	34° C	no	no	93° C	sol
3-phenyl propyl alcohol	122-97-4	136.19	9	12	1	0.999	balsamic	colorless clear oily liquid	235° C	-17° C	2300	>5000	109° C	sol
<i>p</i> -anisyl alcohol	105-13-5	138.16	8	10	2	1.085	powdery	white to pale yellow liquid to solid	259° C	24° C	1200	3000	110° C	sol
2,6-nonadien-1-ol	7786-44-9	140.22	9	16	1	0.866	green	colorless to pale yellow clear oily liquid	195° C	no	>5000	>5000	80° C	sol
<i>trans</i> -anethol	4180-23-8	148.20	10	12	1	0.959	sweet anise licorice mimosa	white colorless crystals	236° C	23° C	2090	>5000	91° C	sol
<i>cis</i> -anethol	25679-28-1	148.20	10	12	1	0.959	anise				150	no	no	sol
thymol	89-83-8	150.22	10	14	1	0.974	herbal phenolic medical camphor	white crystalline solid	231° C	50° C	980	no	102° C	sol
carvacrol	499-75-2	150.22	10	14	1	0.974	spice woody camphor thymol	colorless to yellow clear viscous liquid	237° C	4° C	810	2700	107° C	sol
cuminyl alcohol	536-60-7	150.22	10	14	1	0.979	spicy	colorless to pale yellow clear liquid	247° C	no	1020	2500	93° C	sol
perilla alcohol	536-59-4	152.23	10	16	1	0.940	green	colorless to pale yellow clear liquid	92° C	no	2100	>5000	>110° C	sol

sabinol	471-16-9	152.23	10	16	1	1.000		colorless clear liquid	208° C	no	no	no	84° C	sol
myrtenol	515-00-4	152.23	10	16	1	0.991	herbal	colorless clear liquid	222° C	no	no	no	89° C	sol
(E)-carveol	1197-07-5	152.23	10	16	1	0.949	caraway solvent spearmint	colorless clear liquid	231° C	no	no	no	91° C	sol
(Z)-carveol	1197-06-4	152.23	10	16	1	0.949	caraway	colorless clear liquid		no	no	no	no	sol
<i>l</i> -carveol	99-48-9	152.23	10	16	1	0.949	minty	colorless to pale yellow clear liquid	226° C	no	3000	>5000	98° C	sol
verbenol	473-67-6	152.23	10	16	1	1.002	balsamic	white to pale yellow crystalline solid	214° C	57° C	no	no	85° C	sol
(E)-verbenol	1820-09-3	152.23	10	16	1	1.002		white to colorless solid to liquid	215° C	23° C	no	no	84° C	sol
(Z)-verbenol	1845-30-3	152.23	10	16	1	1.002		white crystals	215° C	71° C	no	no	84° C	sol
artemisiyl alcohol	29887-38-5	154.25	10	18	1	0.856	herbal	colorless to pale yellow clear loily liquid	215° C	no	no	no	78° C	sol
borneol	507-70-0	154.25	10	18	1	0.992	pine woody camphor	white powder	213° C	207° C	500	no	66° C	sol
d-borneol	464-43-7	154.25	10	18	1	0.992	balsamic	white crystalline powder	212° C	208° C	2000	no	66° C	sol
l-borneol	464-45-9	154.25	10	18	1	0.992	balsamic	colorless crystals	204° C?	206° C?	5800	no	66° C	sol
isoborneol	124-76-5	154.25	10	18	1	0.992	balsamic	white crystalline solid	214° C	214° C	5200	>5000	93° C	sol
α -campholenic alcohol	1901-38-8	154.25	10	18	1	0.889	camphoreous	colorless clear liquid	208° C	no	no	no	78° C	sol
4-carvomenthenol (terpinen-4-ol)	562-74-3	154.25	10	18	1	0.933	pepper woody earth musty sweet	pale yellow clear liquid	212° C	no	1300	>2500	79° C	sol
1,4-cineole	470-67-7	154.25	10	18	1	0.977	herbal	colorless clear liquid	172° C	no	3870	>5000	48° C	sol
1,8-cineole	470-82-6	154.25	10	18	1	0.922	eucalyptus camphor	colorless clear liquid	177° C	2° C	2480	5000	50° C	sol
geraniol	106-24-1	154.25	10	18	1	0.866	sweet floral fruity rose waxy	colorless clear liquid	230° C	16° C	3600	>5000	93° C	sol
lavandulol	58461-27-1	154.25	10	18	1	0.857	delicate farnesol-like	colorless to pale yellow clear liquid	230° C	no	no	no	88° C	sol
linalool	78-70-6	154.25	10	18	1	0.858	citrus floral sweet woody green	colorless clear liquid	196° C	no	2790	5610	76° C	sol
myrcenol	543-39-5	154.25	10	18	1	0.851	floral	colorless to pale yellow clear liquid	225° C	no	5300	>5000	89° C	sol
myrtanol	514-99-8	154.25	10	18	1	0.950		white to pale yellow solid	215° C	no	no	no	96° C	sol
nerol	106-25-2	154.25	10	18	1	0.866	sweet citrus	colorless clear liquid	226° C	no	4500	>5000	108° C	sol
α -terpineol	98-55-5	154.25	10	18	1	0.934	floral	colorless viscous liquid to solid	216° C	41° C	4300	3000	88° C	sol
β -terpineol	138-87-4	154.25	10	18	1	0.921	woody	colorless clear liquid	210° C	no	no	no	87° C	sol
δ -terpineol	7299-42-5	154.25	10	18	1	0.910		colorless to pale yellow liquid to solid	218° C	no	no	no	84° C	sol
γ -terpineol	586-81-2	154.25	10	18	1	0.941	terpineol lilac	colorless to pale yellow clear viscous liquid	219° C	no	no	no	88° C	sol
thujyl alcohol	21653-20-3	154.25	10	18	1	1.019	carvomenthol	colorless crystals	100° C@12 mm Hg	28° C	no	no	83° C	sol
yomogi alcohol	30458-12-9	154.25	10	18	1	0.857			213° C	no	no	no	78° C	sol
citronellol	106-22-9	156.26	10	20	1	0.845	floral leather waxy citrus	colorless to pale yellow clear liquid	225° C	no	3450	2650	93° C	sol
(±)-citronellol	26489-01-0	156.26	10	20	1	0.845	sweet rose leather musty floral	colorless to pale yellow liquid	225° C	no	3450	2650	93° C	sol
<i>l</i> -citronellol	7540-51-4	156.26	10	20	1	0.845	floral rose geranium	colorless clear liquid	225° C	no	3450	2650	102° C	sol
carvomenthol	499-69-4	156.26	10	20	1	0.890			222° C	no	no	no	87° C	sol
safole	94-59-7	162.18	10	10	2	1.118	sweet warm spicy woody floral	colorless to pale yellow clear liquid	233° C	11° C	1950	>5000	98° C	sol
eugenol	97-53-0	164.20	10	12	2	1.050	sweet spicy clove woody	pale yellow to dark yellow clear liquid	252° C	10° C	1930	no	93° C	sol
isoeugenol	97-54-1	164.20	10	12	2	1.074	sweet spicy woody floral	colorless to yellow clear liquid	267° C	14° C	1560	no	>100° C	sol
methyl isoeugenol	93-16-3	178.23	11	14	2	0.998	spicy clove woody	colorless to pale yellow clear liquid	263° C	16° C	2500	>5000	>110° C	sol
myristicin	607-91-0	192.21	11	12	3	1.137	spice warm balsam woody	colorless clear liquid	173° C@40 mm Hg	no	4260	no	90° C	sol
caryophyllene alcohol	56747-96-7	208.34	14	24	1	1.004	spicy moss earthy	colorless clear liquid	282° C	no	>5000	>5000	118° C	sol
α -caryophyllene alcohol	4586-22-5	208.34	14	24	1	1.001	woody spicy earthy	white crystals	150° C	117° C	no	no	120° C	sol
β -caryophyllene alcohol	472-97-9	208.34	14	24	1	1.011	warm woody moss spicy earthy	white crystals	292° C	95° C	no	no	123° C	sol
santalol	11031-45-1	220.35	15	24	1	0.888	woody	colorless to pale yellow clear viscous liquid	302° C	no	no	no	>100° C	sol
α -santalol	115-71-9	220.35	15	24	1	1.030								
cedrenol	28231-03-0	220.35	15	24	1	1.020	woody	yellow crystals	169° C@9.5 mm Hg	83° C	>5000	>5000	98° C	sol
vetiverol	89-88-3	220.35	15	24	1	0.964	woody	yellow to pale green clear viscous liquid		70° C	no	no	>100° C	sol
acoragermacrone	50281-45-3	220.35	15	24	1	0.886			321° C	no	no	no	147° C	sol
apiole	523-80-8	222.24	12	14	4	1.151	parsley faint	colorless to yellow green clear liquid	295° C	56° C	no	no	no	sol
agarospirol	23811-08-7	222.37	15	26	1	0.960	spicy peppery woody		312° C	57° C	no	no	114° C	sol
β -acorenol	28400-11-5	222.37	15	26	1	0.960			310° C	no	no	no	114° C	sol
bisabolol	515-69-5	222.37	15	26	1	0.922	mild floral peppery note	colorless clear viscous liquid	315° C	no	>5000	no	110° C	sol
β -bisabolol	15352-77-9	222.37	15	26	1	0.921	citrus floral fresh sweet herbal	colorless clear viscous liquid	306° C	no	no	no	131° C	sol
bulnesol	22451-73-6	222.37	15	26	1	0.960	spicy		138° C	70° C	no	no	116° C	sol
α -cadinol	481-34-5	222.37	15	26	1	0.937	herb wood	pale yellow crystalline solid	303° C	75° C	no	no	128° C	sol
β -cadinol	36564-42-8	222.37	15	26	1	0.937	herbal		303° C	no	no	no	128° C	sol

l-cadinol	5937-11-1	222.37	15	26	1	0.937	pure odorless - mixtures earthy	white crystalline solid	303° C	140° C	no	no	128° C	sol
carotol	465-28-1	222.37	15	26	1	0.973	pleasant mild		295° C	no	no	no	126° C	sol
cedrol	77-53-2	222.37	15	26	1	1.000	woody	white crystals	273° C	84° C	no	>5000	81° C	sol
cubebol	23445-02-5	222.37	15	26	1	1.000			280° C	62° C	no	no	117° C	sol
(-)-cubanol	21284-22-0	222.37	15	26	1	0.952	spicy herbal green tea		301° C	no	no	no	128° C	sol
elemol	8024-27-9	222.37	15	26	1	0.937		pale yellow to yellow crystals or solid	290° C	51° C	no	no	99° C	sol
α-elemol	639-99-6	222.37	15	26	1	0.932	green woody sweet	pale yellow to yellow crystals or solid	290° C	51° C	no	no	99° C	sol
β-elemol	32142-08-8	222.37	15	26	1	0.937			290° C		no	no	99° C	sol
famesol	4602-84-0	222.37	15	26	1	0.875	mild fresh sweet floral	colorless to pale yellow clear oily liquid	263° C	no	6	no	96° C	sol
ledol	577-27-5	222.37	15	26	1	0.962		colorless crystals	293° C	104° C	no	no	123° C	sol
nerolidol	7212-44-4	222.37	15	26	1	0.869	floral	colorless to pale yellow clear oily liquid	114° C@1 mm Hg	no	>5000	>5000	96° C	sol
(E)-nerolidol	40716-66-3	222.37	15	26	1	0.869	floral	colorless to pale yellow clear liquid	277° C	no	no	no	>110° C	sol
(Z)-nerolidol	3790-78-1	222.37	15	26	1	0.869	floral		no	no	no	no	no	sol
patchouli alcohol	5986-55-0	222.37	15	26	1	1.001	odorless	colorless to pale yellow crystalline solid	287° C	56° C	no	no	102° C	sol
valerianol	20489-45-6	222.37	15	26	1	0.960			310° C	no	no	no	113° C	sol
widdrol	6892-80-4	222.37	15	26	1	0.960		colorless solid	303° C	98° C	no	no	128° C	sol
viridiflorol	552-02-3	222.37	15	26	1	0.962	herbal	yellow solid	394° C	75° C	no	no	123° C	sol
phyltol	150-86-7	296.53	20	40	1	0.845	delicate floral balsam	colorless clear liquid	334° C	no	>5000	>5000	>100° C	sol
sclarcol	515-03-7	308.50	20	36	2	0.954	sweet balsam clary amber woody	amber solid	220° C@19 mm Hg	98° C	>5000	>5000	no	sol

HYDRATES

camphene hydrate	465-31-6	154.25	10	18	1	0.969	menthol musty camphor	colorless to pale yellow crystalline solid	250° C	105° C	no	no	81° C	sol
sabinene hydrate	546-79-2	154.25	10	18	1	1.030	herbal	white crystals	200° C	no	no	no	80° C	sol
(E)-sabinene hydrate	17699-16-0	154.25	10	18	1	1.030	woody balsam	colorless to pale yellow clear liquid	202° C	no	no	no	80° C	sol
(Z)-sabinene hydrate	15537-55-0	154.25	10	18	1	1.030	balsam	colorless to pale yellow clear liquid	202° C	no	no	no	80° C	sol

KETONES

SATURATED KETONES

acetone	67-64-1	58.08	3	6	1	0.772	solvent	colorless clear liquid	57° C	no	3465	20	-17° C	sol
methyl ethyl ketone	78-93-3	72.11	4	8	1	0.786	ethereal	colorless clear liquid	79° C	no	2730	6840	-3° C	sol
2-pentanone	107-87-9	86.13	5	10	1	0.796	fruity	colorless clear liquid	105° C	no	3730	6500	7° C	sol
3-pentanone	96-22-0	86.13	5	10	1	0.796	ether	colorless clear liquid	102° C	-40° C	2140	20	13° C	sol
3-hexanone	589-38-8	100.16	6	12	1	0.803	fruity	colorless clear liquid	123° C	no	2727	3170	45° C	sol
3-methyl-2-pentanone	565-61-7	100.16	6	12	1	0.803		colorless clear liquid	117° C	no	no	no	12° C	sol
butyl methyl ketone	591-78-6	100.16	6	12	1	0.800	ether	colorless clear liquid	128° C	no	2590	4800	35° C	sol
isobutyl methyl ketone	108-10-1	100.16	6	12	1	0.800	petroleum	colorless clear liquid	117° C	no	2080	>3000	13° C	sol
2-heptanone	110-43-0	114.19	7	14	1	0.808	cheesy	colorless clear liquid	150° C	-27° C	1670	12600	47° C	sol
4-heptanone	123-19-3	114.19	7	14	1	0.808	fruity	colorless clear liquid	144° C	-33° C	3049	5660	49° C	sol
5-methyl-2-hexanone	110-12-3	114.19	7	14	1	0.806		colorless clear liquid	144° C	no	3200	10	41° C	sol
2-octanone	111-13-7	128.21	8	16	1	0.812	earthy	colorless to pale yellow clear liquid	174° C	-16° C	>5000	1337	63° C	sol
3-octanone	106-68-3	128.21	8	16	1	0.811	herbal	colorless clear liquid	168° C	no	>5000	no	46° C	sol
5-methyl-3-heptanone	541-85-5	128.21	8	16	1	0.811		colorless clear liquid	158° C	no	3500	16000	44° C	sol
6-methyl-3-heptanone	624-42-0	128.21	8	16	1	0.811		colorless clear liquid	162° C	no	no	no	44° C	sol
2-nonanone	821-55-6	142.24	9	18	1	0.816	fruity	colorless to pale yellow clear oily liquid	195° C	-21° C	3200	>5000	64° C	sol
3-nonanone	925-78-0	142.24	9	18	1	0.816	floral	colorless clear liquid	188° C	no	no	no	68° C	sol
4-nonanone	4485-09-0	142.24	9	18	1	0.816		colorless clear liquid	188° C	no	no	no	61° C	sol
2-decanone	693-54-9	156.27	10	20	1	0.819	floral	colorless clear liquid	210° C	14° C	7936	no	85° C	sol
3-decanone	928-80-3	156.27	10	20	1	0.819	waxy fruity citrus floral green	colorless clear liquid	203° C	2° C	no	no	63° C	sol
2-undecanone	112-12-9	170.29	11	22	1	0.821	waxy fruity	colorless to pale yellow clear liquid	232° C	12° C	950	>5000	89° C	sol
4-undecanone	14476-37-0	170.29	11	22	1	0.821	fruity	colorless clear liquid	226° C	5° C	no	no	73° C	sol
2-dodecanone	6175-49-1	184.32	12	24	1	0.823	fruity citrus floral	white liquid to crystals	245° C	no	no	no	110° C	sol
2-tridecanone	593-08-8	198.34	13	26	1	0.825	fatty waxy dairy	white crystals	195° C@110mm Hg	30° C	no	no	>110° C	sol
2-tetradecanone	2345-27-9	212.37	14	28	1	0.827		colorless crystalline solid	279° C	33° C	no	no	84° C	sol
2-pentadecanone	2345-28-0	226.40	15	30	1	0.828	floral	colorless white solid	293° C	39° C	no	no	>110° C	sol
2-hexadecanone	18787-63-8	240.42	16	32	1	0.829	fruity		317° C	no	no	no	83° C	sol
2-heptadecanone	2922-51-2	254.45	17	34	1	0.830		white solid	319° C	48° C	no	no	81° C	sol

UNSATURATED KETONES

3-penten-2-one	625-33-2	84.11	5	8	1	0.826	solvent	colorless to yellow clear liquid	123° C	no	3200	500	21° C	sol
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1-octen-3-one	4312-99-6	126.20	8	14	1	0.825	mushroom	colorless clear liquid	178° C	no	no	no	52° C	sol
3-octen-2-one	1669-44-9	126.20	8	14	1	0.833	earthy	colorless clear liquid	100° C@ 18 mm Hg	no	no	no	54° C	sol
methyl heptenone	110-93-0	126.20	8	14	1	0.837	citrus	colorless to pale yellow clear liquid	174° C	no	4100	>5000	51° C	sol
4-octen-3-one	14129-48-7	126.20	8	14	1	0.833	coconut fruity	colorless to pale yellow clear liquid	180° C	no	no	no	67° C	sol
(E)-2-nonen-4-one	27743-70-0	140.22	9	16	1	0.835	fruity	colorless to pale yellow clear liquid	200° C	no	no	no	81° C	sol
(E)-3-nonen-2-one	18402-83-0	140.22	9	16	1	0.835		colorless clear liquid	201° C	no	no	no	81° C	sol
3-decen-2-one	10519-33-2	154.25	10	18	1	0.836	fatty	colorless clear liquid	125° C	16° C	no	no	92° C	sol
10-undecen-2-one	36219-73-5	168.28	11	20	1	0.831	citrus fatty	colorless to pale yellow clear liquid	255° C	no	no	no	89° C	sol

methyl heptadienone	1604-28-0	124.18	8	12	1	0.857	spicy	pale yellow clear liquid	190° C	no	no	no	81° C	sol
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AROMATIC KETONES

3-methyl cyclohexanone	591-24-2	112.17	7	12	1	0.912	camphoreous	colorless clear liquid	170° C	no	no	no	52° C	sol
acetophenone	98-86-2	120.15	8	8	1	0.993	floral	colorless clear liquid	202° C	20° C	815	15900	82° C	sol
methyl acetophenone	122-00-9	134.18	9	10	1	0.977	floral	colorless clear liquid	224° C	-24° C	1400	no	92° C	sol
2'-hydroxyacetophenone	118-93-4	136.15	8	8	2	1.140	phenolic	yellow green clear liquid	213° C@717 mm Hg	5° C	no	no	>110° C	sol
4'-hydroxyacetophenone	99-93-4	136.15	8	8	2	1.140	floral	white to beige powder	148° C	110° C	1500	no	121° C	sol
2',4'-dimethyl acetophenone	89-74-7	148.20	10	12	1	0.965	floral	pale yellow clear oily liquid	118° C@18 mm Hg	no	no	no	100° C	sol
acetanisole	100-06-1	150.17	9	10	2	1.035	sweet anisic vanilla powdery	white to pale yellow crystals	256° C	38° C	1720	>5000	>110° C	sol
acetovanillone	498-02-2	166.17	9	10	3	1.158	vanilla	pale yellow to yellowish tan powder	297° C	113° C	no	no	>110° C	sol

TERPENE KETONES

camphenilone	13211-15-9	138.21	9	14	1	0.986	camphor		195° C	no	no	no	66° C	sol
carvone	99-49-0	150.22	10	14	1	0.940	minty licorice	colorless to pale yellow clear liquid	230° C	no	1640	no	89° C	sol
d-carvone	2244-16-8	150.22	10	14	1	0.940	spice bread caraway	colorless to pale yellow clear liquid	230° C	no	3710	4	96° C	sol
l-carvone	6485-40-1	150.22	10	14	1	0.940	sweet spearmint herbal	colorless to pale yellow clear liquid	230° C	no	1640	no	89° C	sol
chrysanthenone	473-06-3	150.22	10	14	1	0.992		colorless to pale yellow clear liquid	209° C	no	no	no	76° C	sol
umbellulone	24545-81-1	150.22	10	14	1	1.057	minty pungent		220° C	no	1450	no	85° C	sol
verbenone	80-57-9	150.22	10	14	1	0.992	camphoreous	colorless to yellow clear viscous liquid	104° C@16 mm Hg	44° C	no	no	85° C	sol
l-verbenone	1196-01-6	150.22	10	14	1	0.992	spicy mint camphor	colorless to pale yellow clear liquid	228° C	no	no	no	85° C	sol
α-thujone	546-80-5	152.23	10	16	1	1.009	cedarleaf	colorless to pale yellow clear liquid	201° C	no	500	no	no	sol
β-thujone	1125-12-8	152.23	10	16	1	1.009		colorless to pale yellow clear liquid	202° C	no	no	no	64° C	sol
(±)-camphor	76-22-2	152.23	10	16	1	0.982	camphoreous	white to pale yellow crystalline solid	205° C	176° C	1310	no	64° C	sol
d-camphor	464-49-3	152.23	10	16	1	0.982	camphoreous	white colorless crystals	204° C	180° C	1310	no	64° C	sol
fenchone	1195-79-5	152.23	10	16	1	0.982			194° C	6° C	no	no	60° C	sol
d-fenchone	4695-62-9	152.23	10	16	1	0.982	herbal earthy woody	colorless clear oily liquid	193° C	7° C	6160	no	63° C	sol
l-fenchone	7787-20-4	152.23	10	16	1	0.982	camphor herbal earthy woody	colorless clear oily liquid	193° C	6° C	no	no	63° C	sol
artemisiyl ketone	546-49-6	152.23	10	16	1	0.849	herbal honey mint berry	pale yellow to yellow green clear liquid	182° C	no	no	no	57° C	sol
p-anisyl methyl ketone	122-84-9	164.20	10	12	2	1.027	fruity	colorless clear oily liquid	264° C	no	3330	>5000	102° C	sol
β-damasconone	23696-85-7	190.28	13	18	1	0.926	floral	yellow clear liquid	274° C	no	no	no	>100° C	sol
α-damasconone	43052-87-5	192.30	13	20	1	0.892	floral			no	no	no	>93° C	sol
(E)-α-damasconone	24720-09-0	192.30	13	20	1	0.898	fruity	colorless to pale yellow clear liquid	266° C	no	no	no	>93° C	sol
(E)-β-damasconone	23726-91-2	192.30	13	20	1	0.907	fruity	pale yellow clear liquid	200° C	no	2920	no	>93° C	sol
zingiberone	122-48-5	194.22	11	14	3	1.111	spicy	yellow to yellow brown crystals	290° C	41° C	2580	>5000	no	1:1 in 50%
geranyl acetone	689-67-8	194.31	13	22	1	0.855	fresh floral green	colorless to pale yellow clear liquid	247° C	no	>6800	>5000	>100° C	sol
α-ambrinol	41199-19-3	194.31	13	22	1	0.980	amber	colorless to pale yellow clear liquid	281° C	no	no	no	>93° C	sol
ar-turmerone	532-65-0	216.32	15	20	1	0.945			325° C	no	no	no	122° C	sol
aristolone	6831-17-0	218.33	15	22	1	1.020			306° C	no	no	no	136° C	sol
α-turmerone	82508-15-4	218.33	15	22	1	0.924			319° C	no	no	no	141° C	sol
β-turmerone	82508-14-3	218.33	15	22	1	0.920			320° C	no	no	no	141° C	sol
zerumbone	471-05-6	218.33	15	22	1	0.887			321° C	no	no	no	133° C	sol
acoragermacrone	50281-45-3	220.35	15	24	1	0.886			321° C	no	no	no	147° C	sol
acolamone	39012-14-1	220.35	15	24	1	0.940			298° C	no	no	no	122° C	sol
valeranone	55528-90-0	222.37	16	26	1	0.940			288° C	no	no	no	120° C	sol
curzerenone	20493-56-5	230.30	15	18	2	1.063			320° C	no	no	no	148° C	sol
isoacorone	6168-64-5	236.35	15	24	2	1.000			347° C	no	no	no	131° C	sol

ALDEHYDES

SATURATED ALDEHYDES

acetaldehyde	75-07-0	44.05	2	4	1	0.748	ethereal	colorless clear liquid	21° C	no	661	3540	-40° C	sol
butyraldehyde	123-72-8	72.11	4	8	1	0.784	chocolate	colorless clear liquid	75° C	no	2490	3560	-11° C	sol
isobutyraldehyde	78-84-2	72.11	4	8	1	0.781	spicy	colorless clear liquid	63° C	no	960	7130	-19° C	sol
valeraldehyde	110-62-3	86.13	5	10	1	0.794	fermented	colorless to pale yellow clear liquid	102° C	no	4581	>5000	13° C	sol
isovaleraldehyde	590-86-3	86.13	5	10	1	0.791	aldehydic	colorless to pale yellow clear liquid	92° C	no	5600	3180	-2° C	sol
hexanal	66-25-1	100.16	6	12	1	0.801	green	colorless clear liquid	130° C	no	4890	no	32° C	sol
heptanal	111-71-7	114.19	7	14	1	0.807	green	colorless clear liquid	152° C	-43° C	3200	>5000	35° C	sol
octanal	124-13-0	128.21	8	16	1	0.811	aldehydic	colorless to pale yellow clear liquid	172° C	14° C	5630	6350	52° C	sol
nonanal	124-19-6	142.24	9	18	1	0.815	aldehydic	colorless to pale yellow clear liquid	200° C	no	>5000	5000	71° C	sol
decanal	112-31-2	156.27	10	20	1	0.818	aldehydic	colorless to pale yellow clear liquid	208° C	18° C	3730	5040	86° C	sol
undecanal	112-44-7	170.29	11	22	1	0.820	aldehydic	colorless to pale yellow clear liquid	223° C	no	no	no	96° C	sol
dodecanal	112-54-9	184.32	12	24	1	0.823	aldehydic	colorless to pale yellow clear liquid	185° C@100mm Hg	5° C	23000	no	102° C	sol
tridecanal	10486-19-8	198.34	13	26	1	0.824	aldehydic	colorless clear liquid	112° C@12mm Hg	14° C	no	no	>100° C	sol
tetradecanal	124-25-4	212.37	14	28	1	0.826	fatty waxy amber	colorless to pale yellow clear liquid	260° C	21° C	>5000	>10000	110° C	sol
pentadecanal	2765-11-9	226.40	15	30	1	0.827	fresh waxy		285° C	25° C	no	no	130° C	sol
hexadecanal	629-80-1	240.42	16	32	1	0.829	cardboard	white solid	287° C	35° C	no	no	139° C	sol

UNSATURATED ALDEHYDES

(E)-2-penten-1-al	764-39-6	84.12	5	8	1	0.824	green	colorless clear liquid	81° C@160mm Hg	16° C	no	no	23° C	sol
2-hexen-1-al	505-57-7	98.14	6	10	1	0.828	fruity green leafy	colorless to pale yellow clear liquid	146° C	no	no	no	38° C	sol
(E)-2-hexen-1-al	6728-26-3	98.14	6	10	1	0.828	green	colorless to pale yellow clear liquid	146° C	no	780	600	38° C	sol
(E)-2-hexen-1-al	85761-70-2	98.14	6	10	1	0.828	green leafy	colorless clear liquid	142° C	no	no	no	48° C	sol
3-hexen-1-al	4440-65-7	98.14	6	10	1	0.828	green leafy	colorless clear liquid	128° C	no	no	no	57° C	sol
(Z)-3-hexen-1-al	6789-80-6	98.14	6	10	1	0.828	green grassy	colorless clear liquid	20° C@0.20mm Hg	no	1560	3700	44° C	sol
(Z)-4-hexen-1-al	4634-89-3	98.14	6	10	1	0.828		colorless clear liquid	75° C@100 mm Hg	no	no	no	18° C	sol
2-methyl-2-penten-1-al	623-36-9	98.14	6	10	1	0.829	fruity	colorless clear liquid	135° C	no	4290	4500	32° C	sol
2-hepten-1-al	2463-63-0	112.17	7	12	1	0.830	green fatty	colorless clear liquid	166° C	no	no	no	53° C	sol
(E)-2-hepten-1-al	18829-55-5	112.17	7	12	1	0.830	green vegetable	colorless clear liquid	166° C	no	1300	860	52° C	sol
(Z)-4-hepten-1-al	6728-31-0	112.17	7	12	1	0.830	green	colorless to pale yellow clear oily liquid	60° C@25mm Hg	no	no	no	39° C	sol
(E)-2-octen-1-al	2363-89-5	126.20	8	14	1	0.832	green	colorless to pale yellow clear oily liquid	85° C@19mm Hg	no	no	no	68° C	sol
2-nonen-1-al	2463-53-8	140.22	9	16	1	0.834	fatty	colorless to pale yellow clear oily liquid	189° C	no	5000	3700	84° C	sol
(E)-2-nonen-1-al	2463-53-8	140.22	9	16	1	0.834	green	colorless to pale yellow clear oily liquid	189° C	no	no	no	84° C	sol
(Z)-2-nonen-1-al	60784-31-8	140.22	9	16	1	0.834	fatty waxy	colorless clear liquid	203° C	no	no	no	84° C	sol
(Z)-6-nonen-1-al	2277-19-2	140.22	9	16	1	0.834	melon	colorless clear liquid	87° C@ 19 mm Hg	no	>5000	>5000	66° C	sol
2-decen-1-al	3913-71-1	154.25	10	18	1	0.835	fatty	colorless clear oily liquid	230° C	no	5000	3400	96° C	sol
(E)-2-decen-1-al	3913-81-3	154.25	10	18	1	0.835	waxy	colorless to pale yellow clear liquid	229° C	no	5000	3400	88° C	sol
(Z)-2-decen-1-al	2497-25-8	154.25	10	18	1	0.835	tallow	colorless to pale yellow clear liquid	228° C	no	no	no	96° C	sol
(E)-4-decen-1-al	65405-70-1	154.25	10	18	1	0.835	aldehydic	pale yellow clear liquid	220° C	no	no	no	85° C	sol
(E)-2-undecen-1-al	2463-77-6	168.28	11	20	1	0.837	aldehydic	pale yellow clear liquid	115° C@ 10 mm Hg	no	no	no	104° C	sol
2-dodecen-1-al	4826-62-4	182.30	12	22	1	0.837	herbal	colorless to pale yellow clear liquid	264° C	no	>5000	5000	93° C	sol
(E)-2-dodecen-1-al	20407-84-5	182.30	12	22	1	0.837	citrus	colorless clear oily liquid	272° C	no	no	no	>100° C	sol
2-tridecen-1-al	7774-82-5	196.33	13	24	1	0.838	aldehydic	colorless to pale yellow clear oily liquid	116° C@10 mm Hg	no	>5000	5000	139° C	sol
(E)-2-tetradecen-1-al	64461-99-0	210.36	14	26	1	0.839	citrus waxy green	colorless to pale yellow clear liquid	300° C	no	no	no	110° C	sol
(E)-2-pentadecen-1-al	64462-00-6	224.38	15	28	1	0.840			316° C	no	no	no	156° C	sol

benzaldehyde	100-52-7	106.12	7	6	1	1.049	strong sharp sweet bitter almond	colorless to pale yellow clear liquid	178° C	-25° C	1300	no	63° C	sol
salicyl aldehyde	90-02-8	122.12	7	6	2	1.226	medical spicy cinnamon	colorless clear oily liquid	197° C	1° C	520	3000	77° C	sol
cinnamaldehyde	104-55-2	132.16	9	8	1	1.034	sweet spice warm	yellow to dark yellow clear oily liquid	250° C	-7° C	2200	0.59	99° C	sol
(E)-cinnamaldehyde	14371-10-9	132.16	9	8	1	1.034	spicy	pale yellow to yellow clear liquid	248° C	no	no	no	71° C	sol
(Z)-cinnamaldehyde	57194-69-1	132.16	9	8	1	1.034	spicy cinnamaon	pale yellow to yellow clear liquid	245° C	no	no	no	71° C	sol
p-anisaldehyde	123-11-5	136.15	8	8	2	1.088	sweet powdery floral	pale yellow clear oily liquid	249° C	-1° C	1510	>5000	109° C	1:7 in 50%
m-anisaldehyde	591-31-1	136.15	8	8	2	1.088		colorless to pale yellow clear liquid	230° C	no	no	no	>110° C	sol
o-anisaldehyde	135-02-4	136.15	8	8	2	1.088	anisic	colorless to cream amber crystalline powder	243° C	37° C	2500	>5000	118° C	sol
coumarin	91-64-5	146.14	9	6	2	1.248	sweet hay tonka new mown hay	white crystals	300° C	71° C	293	no	>110° C	sol
cocoa butenal	4411-89-6	146.19	10	10	1	0.990	musty floral honey powdery cocoa	yellow clear liquid	177° C@15 mm Hg	no	no	no	106° C	sol
cuminaldehyde	122-03-2	148.20	10	12	1	0.980	spicy cumin green herbal	colorless to pale yellow clear liquid	236° C	no	1390	2800	93° C	sol

citral	5392-40-5	152.23	10	16	1	0.856	sharp lemon sweet	colorless to pale yellow clear liquid	229° C	no	4960	2250	91° C	sol
(E)-citral	141-27-5	152.23	10	16	1	0.856	citrus lemon	colorless to yellow clear liquid	229° C	no	500	no	102° C	sol
(Z)-citral	106-26-3	152.23	10	16	1	0.856	sweet citral lemon peel	pale yellow to yellow clear liquid	229° C	no	no	no	102° C	sol
α-campholenic aldehyde	4501-58-0	152.23	10	16	1	0.897	herbal	pale yellow clear liquid	84° C@1 mm Hg	no	no	no	66° C	sol
2,4-decadien-1-al	2363-88-4	152.23	10	16	1	0.854	fatty	yellow clear liquid	244° C	no	no	no	107° C	sol
(E,E)-2,4-decadien-1-al	2363-88-4	152.23	10	16	1	0.854	fatty	pale yellow to yellow clear liquid	280° C	no	no	no	85° C	sol
(E,Z)-2,4-decadien-1-al	25152-83-4	152.23	10	16	1	0.854	fatty	yellow clear liquid	245° C	no	no	no	102° C	sol
citronellal	106-23-0	154.25	10	18	1	0.835	sweet floral waxy citrus green	colorless to pale yellow clear liquid	207° C	no	2420	2500	76° C	sol
vanillin	121-33-5	166.17	9	10	3	1.231	vanilla	white to off white crystalline powder	286° C	83° C	1580	>5010	>91° C	sol
veratraldehyde	120-14-9	166.17	9	10	3	1.114	creamy	yellow crystalline needles	281° C	44° C	3200	>5000	>110° C	sol
coniferaldehyde	458-36-6	178.18	10	10	3	1.186			331° C	83° C	no	no	137° C	sol
cocoa hexenal	21834-92-4	188.27	13	16	1	0.953	chocolate	colorless to yellow clear liquid	290° C	no	no	no	>110° C	sol
cyclamen aldehyde	103-95-7	190.28	13	18	1	0.935	floral cyclamen green	colorless to pale yellow clear liquid	270° C	no	3810	>5000	109° C	sol
α-amyl cinnamaldehyde	122-40-7	202.29	14	18	1	0.962	floral	pale yellow to yellow clear liquid	289° C	no	3730	no	>100° C	sol
abietal	6704-50-3	286.45	20	20	1	0.990			392° C	no	no	no	141° C	sol

elemicin	487-11-6	208.25	12	16	3	1.011	spice flower		156° C@17 mm Hg	no	no	no	93° C	sol
asarone	494-40-6	208.25	12	16	3	1.028	odorless		266° C	63° C	no	no	108° C	sol
camphor	76-22-2	152.23	10	16	1	0.982	camphoreous	white to pale yellow crystalline solid	205° C	177° C	1310	2000	64° C	sol

LACTONES

γ-butyrolactone	96-48-0	86.09	4	6	2	1.128	creamy oily fatty caramel	colorless to pale yellow clear liquid	204° C	-45° C	1540	>5000	98° C	sol
α-angelica lactone	591-12-8	98.10	5	6	2	1.120	solvent	white crystals	168° C	18° C	3900	no	68° C	sol
γ-valerolactone	108-29-2	100.12	5	8	2	1.040	herbal sweet warm cocoa woody	colorless to pale yellow clear liquid	207° C	-31° C	>5000	>5000	96° C	sol
β-hexalactone	823-22-3	114.14	6	10	2	1.001	sweet herbal	colorless clear oily liquid	112° C@15 mm Hg	no	13020	no	107° C	sol
γ-hexalactone	695-06-7	114.14	6	10	2	1.002	herbal coconut coumarin tobacco	colorless to pale yellow clear liquid	220° C	-18° C	>5000	>5000	98° C	sol
δ-heptalactone	3301-90-4	128.17	7	12	2	0.974	coconut	colorless clear oily liquid	230° C	17° C	no	no	93° C	sol
γ-heptalactone	105-21-5	128.17	7	12	2	0.983	coconut	colorless clear oily liquid	103° C@7 mm Hg	no	>5000	>5000	>110° C	sol
δ-octalactone	698-76-0	142.20	8	14	2	0.960	coconut	colorless to pale yellow clear liquid	116° C@12 mm Hg	no	>5000	>5000	>93° C	sol
γ-octalactone	104-50-7	142.20	8	14	2	0.960	coconut	colorless to pale yellow clear liquid	234° C	no	>5000	>5000	>100° C	sol
coumarin	91-64-5	146.14	9	16	2	1.248	tonka	white crystals	300° C	70° C	293	no	>110° C	sol
γ-nonalactone	104-61-0	156.22	9	16	2	0.956	coconut creamy waxy buttery	colorless to pale yellow clear oily liquid	243° C	no	6600	>5000	>93° C	sol
dehydromenthofuro lactone	75640-26-5	164.20	10	12	2	1.093	lactonic coumarin sweet coconut		265° C@10 mm Hg	no	no	no	no	sol
mint lactone	13341-72-5	166.22	10	14	2	1.070	creamy coumarin coconut tobacco	colorless clear liquid	302° C	no	no	no	80° C	sol
creamy lactone	25524-95-2	168.23	10	16	2	0.962	creamy	colorless clear liquid	280° C	no	no	no	110° C	sol
massoia lactone	51154-96-2	168.23	10	16	2	0.964	coconut		172° C	no	1890	no	>93° C	sol
δ-decalactone	705-86-2	170.25	10	18	2	0.940	sweet oily coconut creamy dairy	colorless clear liquid	281° C	-27° C	>5000	>5000	>110° C	sol
γ-decalactone	706-14-9	170.25	10	18	2	0.946	fruity creamy coconut buttery	colorless to pale yellow clear oily liquid	153° C@15 mm Hg	no	>5000	>5000	93° C	sol
(±)-3-methyl-gamma-decalactone	67663-01-8	184.28	11	20	2	0.922	floral	colorless clear liquid	276° C	no	no	no	110° C	sol
δ-undecalactone	710-04-3	184.28	11	20	2	0.932	creamy fatty coconut fruity waxy	colorless to pale yellow clear liquid	154° C@10.5 mm Hg	no	>5000	>5000	>110° C	sol
γ-undecalactone	104-67-6	184.28	11	20	2	0.938	fruity peach creamy fatty	colorless to pale yellow clear oily liquid	297° C	no	18500	no	93° C	sol
dairy lactone	18679-18-0	196.29	12	20	2	0.950	fatty	colorless to yellow clear liquid	310° C	no	>5000	no	>100° C	sol
β-dodecalactone	713-95-1	198.30	12	22	2	0.926	fresh peach oily coconut buttery	colorless to pale yellow clear liquid	141° C@1 mm Hg	-12° C	>5000	>5000	>110° C	sol
γ-dodecalactone	2305-05-7	198.30	12	22	2	0.931	fatty peach sweet metallic fruity	colorless to pale yellow clear oily liquid	145° C@5 mm Hg	18° C	>5000	>5000	>110° C	sol
δ-tetradecalactone	2721-22-4	226.36	14	26	2	0.916	waxy creamy oil fatty sweet milky	colorless to pale yellow clear liquid	132° C@5 mm Hg	no	no	no	>110° C	sol
dehydrocostus lactone	477-43-0	230.30	15	18	2	1.090			384° C	no	no	no	161° C	sol
δ-pentadecalactone	106-02-5	240.38	15	28	2	0.892	musk	colorless solid	137° C@2 mm Hg	36° C	>5000	>5000	>104° C	sol

ESTERS

acetates														
methyl acetate	79-20-9	74.08	3	6	2	0.908	ethereal	colorless clear liquid	57° C	23° C	6970	>5000	-9° C	sol
ethyl acetate	141-78-6	88.11	4	8	2	0.898	ethereal	colorless clear liquid	77° C	-83° C	5620		-4° C	sol
propyl acetate	109-60-4	102.13	5	10	2	0.891	solvent celery fruity	colorless clear liquid	101° C	no	9370	>20	13° C	sol

butyl acetate	123-86-4	116.16	6	12	2	0.886	strong fruity banana solvent	colorless clear liquid	125° C	-78° C	10770	17600	26° C	sol
isobutyl acetate	110-19-0	116.16	6	12	2	0.883	fruity	colorless clear liquid	116° C	-99° C	4760	>5000	16° C	sol
acetoin acetate	4906-24-5	130.14	6	10	3	1.012	fruity	colorless to pale yellow clear liquid	117° C	no	no	no	66° C	sol
2-methyl butyl acetate	624-41-9	130.18	7	14	2	0.879	fruity	colorless to pale yellow clear liquid	140° C	no	no	no	35° C	sol
amyl acetate	628-63-7	130.18	7	14	2	0.882	fruity	colorless clear liquid	150° C	-100° C	>1600	no	24° C	sol
isoamyl acetate	123-92-2	130.18	7	14	2	0.879	fruity	colorless clear liquid	142° C	-78° C	16600	>5000	25° C	sol
<i>cis</i> -3-hexenyl acetate	3681-71-8	142.20	8	14	2	0.901	fresh green sweet fruity	colorless clear liquid	167° C	no	5000	>5000	57° C	sol
(E)-2-hexen-1-yl acetate	2497-18-9	142.20	8	14	2	0.901	green	colorless to pale yellow clear liquid	165° C	no	>5000	>5000	58° C	sol
(Z)-3-hexen-1-yl acetate	3681-71-8	142.20	8	14	2	0.901	green	colorless clear liquid	166° C	no	>5000	>5000	57° C	sol
(E)-4-hexen-1-yl acetate	42125-17-7	142.20	8	14	2	0.901		colorless clear liquid	135° C	no	no	no	39° C	sol
(Z)-4-hexen-1-yl acetate	42125-34-8	142.20	8	14	2	0.901		colorless clear liquid	136° C	no	no	no	39° C	sol
hexyl acetate	142-92-7	144.21	8	16	2	0.878	fruity	colorless clear oily liquid	171° C	-80° C		>5000	56° C	sol
benzyl acetate	140-11-4	150.17	9	10	2	1.055	sweet floral fruity jasmine fresh	colorless clear liquid	208° C	-51° C	2490	>5000	102° C	sol
methyl phenyl acetate	101-41-7	150.17	9	10	2	1.055	sweet floral honey spice waxy	colorless clear liquid	217° C	no	2550	2440	91° C	sol
para-cresyl acetate	140-39-6	150.17	9	10	2	1.047	floral	colorless clear liquid	210° C	no	1900	2100	90° C	sol
heptyl acetate	112-06-1	158.24	9	18	2	0.876	green	colorless clear liquid	192° C	-50° C	>5000	>5000	68° C	sol
sec-heptyl acetate	5921-82-4	158.24	9	18	2	0.874		colorless clear liquid	173° C	no	no	no	59° C	sol
ethyl phenyl acetate	101-97-3	164.20	10	12	2	1.034	sweet floral honey	colorless clear liquid	228° C	no	3300	no	78° C	sol
phenethyl acetate	103-45-7	164.20	10	12	2	1.034	floral rose sweet honey fruity	colorless clear liquid	239° C	no	3670	6210	>110° C	sol
ethyl phenyl acetate	101-97-3	164.20	10	12	2	1.034	sweet floral honey	colorless clear liquid	228° C	no	3300	no	78° C	sol
guaiaacyl acetate	613-70-7	166.17	9	10	3	1.099	woody	colorless to pale yellow clear liquid	240° C	32° C	no	no	>110° C	sol
cinnamyl acetate	103-54-8	176.21	11	12	2	1.055	spicy	colorless to pale yellow clear liquid	264° C	no	3300	>5000	>100° C	sol
(E)-cinnamyl acetate	21040-45-9	176.21	11	12	2	1.055	sweet floral spicy balsam	colorless to pale yellow clear liquid	264° C	no	no	no	130° C	sol
3-phenyl propyl acetate	122-72-5	178.23	11	14	2	1.016	balsamic	colorless clear liquid	244° C	no	4700	>5000	>100° C	sol
para-anisyl acetate	104-21-2	180.22	10	12	3	1.083	powdery	colorless to pale yellow clear liquid	139° C@12 mm Hg	no	2250	5000	>100° C	sol
(Z)-3-hexen-1-yl phenyl acetate	42436-07-7	186.29	14	18	2	0.999	green	colorless clear viscous liquid	295° C	no	>5000	>5000	104° C	sol
carvacryl acetate	6380-28-5	192.25	12	16	2	1.002			246° C	30° C	no	no	94° C	sol
butyl phenyl acetate	122-43-0	192.25	12	16	2	0.994	honey	colorless to pale yellow clear liquid	260° C	no	>5000	>5000	>110° C	sol
isobutyl phenyl acetate	102-13-6	192.25	12	16	2	1.000	chocolate	colorless clear liquid	252° C	no	>5000	>5000	122° C	sol
cuminyl acetate	59230-57-8	192.25	12	16	2	0.999	herbal	colorless to pale yellow clear liquid	253° C	no	1450	>5000	>100° C	sol
heliotropyl acetate	326-61-4	194.18	10	10	4	1.265	floral	colorless to pale yellow clear oily liquid	154° C@14 mm Hg	no	2100	>5000	>100° C	sol
carvyl acetate	97-42-7	194.27	12	18	2	0.960	minty	colorless to pale yellow clear liquid	116° C@10 mm Hg	no	no	no	98° C	sol
(Z)-carvyl acetate	1205-42-1	194.27	12	18	2	0.960		colorless to pale yellow clear liquid	300° C	no	no	no	98° C	sol
chrysanthenyl acetate	54324-99-1	194.27	12	18	2	1.030		pale yellow clear liquid	232° C	no	no	no	85° C	sol
(Z)-chrysanthenyl acetate	67999-48-8	194.27	12	18	2	1.030			232° C	no	no	no	85° C	sol
limonen-10-yl acetate	15111-97-4	194.27	12	18	2	0.972	fruity	colorless to pale yellow clear liquid	265° C	no	no	no	no	sol
bornyl acetate	76-49-3	196.29	12	20	2	1.000	woody pine herbal cedar spice	colorless clear liquid	230° C	28° C	no	no	99° C	sol
isobornyl acetate	125-12-2	196.29	12	20	2	1.000	balsamic	colorless clear liquid	230° C	no	9050	>20000	88° C	sol
laevo-bornyl acetate	5655-61-8	196.29	12	20	2	1.000	balsamic	colorless or white clear liquid to crystals	223° C	28° C	no	no	84° C	sol
linalyl acetate	115-95-7	196.29	12	20	2	0.897	sweet green citrus woody	colorless clear liquid	220° C	no	2790	5610	84° C	sol
geranyl acetate	105-87-3	196.29	12	20	2	0.904	floral green waxy	colorless clear liquid	228° C	no	6330	no	93° C	sol
neryl acetate	141-12-8	196.29	12	20	2	0.904	floral rose soapy citrus	colorless to pale yellow clear liquid	231° C	no	>5000	>5000	99° C	sol
α-terpinyl acetate	80-26-2	196.29	12	20	2	0.950	herbal lavender lime citrus	colorless clear liquid	220° C	no	5075	no	89° C	sol
artemisiyl acetate	3465-88-1	196.29	12	20	2	0.896		colorless to pale yellow clear liquid	242° C	no	no	no	79° C	sol
dihydrocarvyl acetate	20777-49-5	196.29	12	20	2	0.940	floral	colorless clear liquid	233° C	no	>5000	>5000	90° C	sol
fenchyl acetate	13851-11-1	196.29	12	20	2	1.000	balsamic	colorless clear liquid	220° C	no	no	no	76° C	sol
α-fenchyl acetate	4057-31-2	196.29	12	20	2	1.000			220° C	no	no	no	87° C	sol
lavandulyl acetate	25905-14-0	196.29	12	20	2	0.897		colorless clear oily liquid	229° C	no	no	no	71° C	sol
1-para-menthen-9-yl acetate	28839-13-6	196.29	12	20	2	0.951	herbal	colorless clear liquid	2309° C	no	no	no	87° C	sol
citronellyl acetate	150-84-5	198.30	12	22	2	0.885	floral green fruity citrus woody	colorless clear liquid	229° C	no	7200	4700	103° C	sol
laevo-citronellyl acetate	67601-05-2	198.30	12	22	2	0.885	floral	colorless clear liquid	259° C	no	6800	>2000	116° C	sol
(Z)-4-decen-1-yl acetate	67452-27-1	198.30	12	22	2	0.886	floral	colorless clear liquid	227° C	no	no	no	66° C	sol
menthyl acetate	89-48-5	198.30	12	22	2	0.920	minty	colorless clear liquid	228° C	23° C	no	no	92° C	sol
dextro,laevo-menthyl acetate	16409-45-3	198.30	12	22	2	0.920	mentholic	colorless clear liquid	228° C	no	7620	>5000	92° C	sol
decyl acetate	112-17-4	200.32	12	24	2	0.870	waxy fresh laundered cloths	colorless clear liquid	272° C	no	>5000	>5000	>110° C	sol
isoamyl phenyl acetate	102-19-2	206.28	13	18	2	0.988	chocolate	colorless to pale yellow clear liquid	268° C	no	no	no	>100° C	sol
eugenyl acetate	93-28-7	206.24	12	14	3	1.055	spicy	colorless to pale yellow clear liquid to solid	283° C	30° C	1670	>5000	>110° C	sol

linalool oxide acetates	67689-50-3	212.29	12	20	3	1.034	warm fruity woody	colorless clear liquid	251° C	no	no	no	104° C	sol
2-acetoxy-1,8-cineole	72257-53-5	212.29	12	20	3	1.050	minty clean fresh eucalyptus	colorless to pale yellow clear liquid	253° C	no	no	no	100° C	sol
hexyl phenyl acetate	5421-17-0	220.31	14	20	2	0.980	green	colorless clear liquid	263° C	no	no	no	>100° C	sol
benzyl phenyl acetate	102-16-9	226.27	15	14	2	1.114	floral	colorless clear liquid	318° C	no	no	no	93° C	sol
lauryl acetate	112-66-3	228.37	14	28	2	0.867	waxy	colorless clear liquid	265° C	1° C	>5000	no	>110° C	sol
cedryl acetate	77-54-3	264.40	17	28	2	1.020	woody	pale yellow viscous liquid	201° C	41° C	44750	>5000	>100° C	sol
farnesyl acetate	29548-30-9	264.40	17	28	2	0.902	floral	colorless to pale yellow clear liquid	166° C@9 mm Hg	no	>5000	>5000	110° C	sol
(E,E)-farnesyl acetate	4128-17-0	264.40	17	28	2	0.902		colorless to pale yellow clear liquid	346° C	no	no	no	103° C	sol

BENZOATES

methyl benzoate	93-58-3	136.15	8	8	2	1.069	phenolic	colorless clear liquid	198° C	-12° C	1177	no	83° C	sol
ethyl benzoate	93-89-0	150.17	9	10	2	1.044	minty	colorless clear liquid	213° C	-35° C	2100	no	88° C	sol
isopropyl benzoate	939-48-0	164.20	10	12	2	1.021	floral	colorless clear liquid	216° C	no	3730	no	110° C	sol
butyl benzoate	136-60-7	178.23	11	14	2	1.007	balsamic	colorless clear viscous liquid	249° C	-22° C	3450	4000	106° C	sol
isobutyl benzoate	120-50-3	178.23	11	14	2	1.005	balsamic	colorless clear oily liquid	237° C	no	5600	no	96° C	sol
prenyl benzoate	8.11.5205	190.24	12	14	2	1.018	balsamic	colorless clear liquid	280° C	no	4700	>5000	99° C	sol
amyl benzoate	2049-96-9	192.25	12	16	2	0.994	floral	colorless to pale yellow clear liquid	268° C	no	6330	>5000	120° C	sol
isoamyl benzoate	94-46-2	192.25	12	16	2	0.992	balsamic	colorless to pale yellow clear liquid	261° C	no	6330	>5000	>110° C	sol
(Z)-3-hexen-1-yl benzoate	25152-85-6	204.26	13	16	2	1.003	green	colorless clear oily liquid	130° C@5 mm Hg	no	>5000	>5000	>100° C	sol
hexyl benzoate	6789-88-4	206.28	13	18	2	0.982	balsamic	colorless clear liquid	272° C	no	12300	2000	>110° C	sol
benzyl benzoate	120-51-4	212.24	14	12	2	1.128	balsamic	colorless clear oily liquid to solid	323° C	19° C	1700	4000	148° C	sol
phenethyl benzoate	94-47-3	226.27	15	14	2	1.106	floral	colorless to pale yellow clear oily liquid	189° C@12 mm Hg	no	5000	>5000	>100° C	sol
cinnamyl benzoate	5320-75-2	238.28	16	14	2	1.120	balsamic	white crystals	209° C@13 mm Hg	31° C	4000	no	176° C	sol
linalyl benzoate	126-64-7	258.36	17	22	2	0.976	floral	yellow to brownish clear liquid	263° C	no	>5000	>5000	98° C	sol
geranyl benzoate	94-48-4	258.36	17	22	2	0.983	balsamic	yellow clear oily liquid	305° C	no	>5000	>5000	>110° C	sol
eugenyl benzoate	531-26-0	268.31	17	16	3	1.112	spicy	colorless to pale yellow crystals	360° C	70° C	no	no	181° C	sol

BUTYRATES

methyl butyrate	623-42-7	102.13	5	10	2	0.892	fruity	colorless clear liquid	102° C	no	>5000	3560	12° C	sol
methyl isobutyrate	547-63-7	102.13	5	10	2	0.888	fruity	colorless clear liquid	92° C	no	16000	no	3° C	sol
ethyl butyrate	105-54-4	116.16	6	12	2	0.886	fruity	colorless clear liquid	120° C	no	13050	>2000	25° C	sol
ethyl isobutyrate	97-62-1	116.16	6	12	2	0.883	fruity	colorless clear liquid	112° C	no	>5000	no	14° C	sol
methyl 2-methyl butyrate	868-57-5	116.16	6	12	2	0.883	fruity	colorless clear liquid	116° C	no	no	no	32° C	sol
ethyl 2-methyl butyrate	7452-79-1	130.18	7	14	2	0.879	fruity	colorless clear liquid	132° C	no	no	no	26° C	sol
propyl butyrate	105-66-8	130.18	7	14	2	0.882	fruity	colorless clear liquid	142° C	no	15000	no	39° C	sol
isopropyl butyrate	638-11-9	130.18	7	14	2	0.879	fruity	colorless clear liquid	130° C	no	no	no	30° C	sol
propyl isobutyrate	644-49-5	130.18	7	14	2	0.879	fruity	colorless clear liquid	133° C	no	15000	no	27° C	sol
isopropyl isobutyrate	617-50-5	130.18	7	14	2	0.877	fruity	colorless clear liquid	120° C	no	no	no	17° C	sol
grape butyrate	5405-41-4	132.16	6	12	3	1.024	fruity	colorless clear viscous liquid	172° C	no	no	no	57° C	sol
butyl butyrate	109-21-7	144.21	8	16	2	0.878	fruity	colorless clear liquid	165° C	no	5600	>5000	49° C	sol
isobutyl butyrate	539-90-2	144.21	8	16	2	0.876	fruity	colorless clear liquid	157° C	no	>5000	>5000	46° C	sol
butyl isobutyrate	97-87-0	144.21	8	16	2	0.876	fruity	colorless clear liquid	157° C	no	>5000	>5000	46° C	sol
isobutyl isobutyrate	97-85-8	144.21	8	16	2	0.874	fruity	colorless clear liquid	147° C	no	12800	>8600	37° C	sol
propyl 2-methyl butyrate	37064-20-3	144.21	8	16	2	0.876		colorless clear liquid	156° C	no	no	no	33° C	sol
isopropyl 2-methyl butyrate	66576-71-4	144.21	8	16	2	0.874	fruity	colorless clear liquid	142° C	no	no	no	33° C	sol
prenyl butyrate	71820-56-9	156.22	9	16	2	0.897		colorless clear liquid	195° C	no	no	no	73° C	sol
butyl 2-methyl butyrate	15706-73-7	158.23	9	18	2	0.874	green	colorless clear liquid	174° C	no	no	no	57° C	sol
isobutyl 2-methyl butyrate	2445-67-2	158.23	9	18	2	0.872	fruity	colorless clear liquid	165° C	no	no	no	49° C	sol
amyl butyrate	540-18-1	158.23	9	18	2	0.876	fruity	colorless to pale yellow clear liquid	186° C	no	12200	11900	68° C	sol
isoamyl butyrate	106-27-4	158.23	9	18	2	0.874	fruity	colorless clear liquid	185° C	no	>5000	>5000	57° C	sol
isoamyl isobutyrate	2050-01-3	158.23	9	18	2	0.872	fruity	colorless to pale yellow clear liquid	180° C	no	no	no	53° C	sol
(E)-2-hexen-1-yl butyrate	53398-83-7	170.25	10	18	2	0.892	green	colorless clear liquid	192° C	no	no	no	72° C	sol
(Z)-3-hexen-1-yl butyrate	16491-36-4	170.25	10	18	2	0.892	green	colorless clear liquid	192° C	no	>5000	no	79° C	sol
(Z)-3-hexen-1-yl isobutyrate	41519-23-7	170.25	10	18	2	0.891	fruity	colorless clear liquid	80° C@30 mm Hg	no	>25000	>5000	67° C	sol
amyl 2-methyl butyrate	68039-26-9	172.26	10	20	2	0.872	fruity	colorless clear liquid	195° C	no	no	no	69° C	sol
isoamyl 2-methyl butyrate	27625-35-0	172.26	10	20	2	0.870	fruity	colorless clear liquid	185° C	no	no	no	75° C	sol
hexyl butyrate	2639-63-6	172.26	10	20	2	0.874	green	colorless clear liquid	205° C	no	>5000	>5000	81° C	sol
hexyl isobutyrate	2349-07-7	172.26	10	20	2	0.872	green	colorless clear liquid	199° C	no	>5000	>5000	73° C	sol
2-methyl butyl 2-methyl butyrate	2445-78-5	172.26	10	20	2	0.870	fruity	colorless clear liquid	186° C	no	no	no	67° C	sol

benzyl butyrate	103-37-7	178.27	11	14	2	1.016	fruity	colorless clear liquid	239° C	21° C	2330	>5000	107° C	sol
benzyl isobutyrate	103-28-6	178.27	11	14	2	1.014	floral	colorless clear liquid	237° C	no	2850	no	99° C	sol
Z)-3-hexen-1-yl 2-methyl butyrate	53398-85-9	184.28	11	20	2	0.887	green	colorless clear liquid	192° C	no	no	no	83° C	sol
heptyl butyrate	5870-93-9	186.29	11	22	2	0.872	fruity	colorless clear liquid	225° C	no	5000	>5000	91° C	sol
2-heptyl butyrate	39026-94-3	186.29	11	22	2	0.870	floral spicy	colorless clear liquid	210° C	no	no	no	83° C	sol
heptyl isobutyrate	2349-13-5	186.29	11	22	2	0.870	fruity	colorless clear liquid	212° C	no	no	no	84° C	sol
hexyl 2-methyl butyrate	10032-15-2	186.29	11	22	2	0.870	green	colorless clear liquid	203° C	no	>5000	>5000	84° C	sol
(±)-ethyl 3-acetoxy-2-methyl butyrate	139564-43-5	188.22	9	16	4	1.018	fruity	colorless clear liquid	205° C	no	no	no	68° C	sol
benzyl 2-methyl butyrate	56423-40-6	192.25	12	16	2	1.000		colorless to pale yellow clear liquid	247° C	no	no	no	99° C	sol
phenethyl butyrate	103-52-6	192.25	12	16	2	1.002	floral	colorless to pale yellow clear liquid	260° C	no	2000	5000	>100° C	sol
phenethyl isobutyrate	103-48-0	192.25	12	16	2	1.000	floral	colorless to pale yellow clear liquid	250° C	no	5200	>5000	108° C	sol
1-octen-3-yl butyrate	16491-54-6	198.30	12	22	2	0.879	mushroom	colorless clear liquid	225° C	no	3424	no	99° C	sol
heptyl 2-methyl butyrate	50862-12-9	200.32	12	24	2	0.869	apple	colorless clear liquid	232° C	no	no	no	94° C	sol
octyl butyrate	110-39-4	200.32	12	24	2	0.870	fruity	colorless clear liquid	225° C	no	no	no	103° C	sol
octyl isobutyrate	109-15-9	200.32	12	24	2	0.869	waxy	colorless to pale yellow clear liquid	237° C	no	>5000	>5000	97° C	sol
cinnamyl butyrate	103-61-7	204.26	13	16	2	1.021	balsamic	pale yellow clear liquid	300° C	no	no	no	>110° C	sol
(E)-cinnamyl butyrate	78761-39-4	204.26	13	16	2	1.021	balsamic	colorless to pale yellow clear liquid	300° C	no	no	no	>110° C	sol
p-anisyl butyrate	6963-56-0	208.25	12	16	3	1.045	fruity	colorless clear liquid	270° C	no	no	no	115° C	sol
octyl 2-methyl butyrate	29811-50-5	214.34	13	26	2		waxy	colorless clear liquid	250° C	no	no	no	104° C	sol
myrtenyl isobutyrate	29021-37-2	222.32	14	22	2	0.984	fruity woody pine	colorless clear liquid	275° C	no	no	no	95° C	sol
bornyl butyrate	13109-70-1	224.34	14	24	2	0.980	herbal woody	colorless clear liquid	247° C	no	no	no	111° C	sol
geranyl butyrate	106-29-6	224.34	14	24	2	0.897	fruity	colorless to pale yellow clear liquid	252° C	no	10660	5000	>100° C	sol
geranyl isobutyrate	2345-26-8	224.34	14	24	2	0.896	floral	colorless to pale yellow clear liquid	245° C	no	>5000	>5000	>100° C	sol
linalyl butyrate	78-36-4	224.34	14	24	2	0.891	floral	colorless to pale yellow clear liquid	232° C	no	no	no	103° C	sol
linalyl isobutyrate	78-35-3	224.34	14	24	2	0.890	fruity	colorless to pale yellow clear liquid	229° C	no	>36300	>5000	72° C	sol
neryl isobutyrate	2345-24-6	224.34	14	24	2	0.896	fruity	colorless clear liquid	229° C	no	>5000	>5000	>110° C	sol
terpinyl butyrate	2153-28-8	224.34	14	24	2	0.946	balsamic	colorless to pale yellow clear liquid	224° C	no	no	no	>100° C	sol
citronellyl butyrate	141-16-2	226.36	14	26	2	0.881	floral	colorless clear liquid	245° C	no	>5000	no	113° C	sol
citronellyl isobutyrate	97-89-2	226.36	14	26	2	0.879	fruity	colorless clear liquid	249° C	no	5000	no	>100° C	sol
rhodinyl butyrate	141-15-1	226.36	14	26	2	0.876	floral	colorless to pale yellow clear liquid	137° C@13 mm Hg	no	>5000	no	>100° C	sol
decyl butyrate	5454-09-1	228.37	14	28	2	0.867	fruity	colorless clear liquid	270° C	no	9800	no	>110° C	sol
geranyl 2-ethyl butyrate	73019-14-4	252.39	16	28	2	0.890		colorless to pale yellow clear liquid	328° C	no	>8000	no	98° C	sol

HEPTANOATES

methyl heptanoate	106-73-0	144.21	8	16	2	0.878	sweet fruit green waxy floral berry	colorless clear liquid	172° C	no	>5000	>5000	53° C	sol
ethyl heptanoate	106-30-9	158.23	9	18	2	0.876	fruity pineapple cognac rum wine	colorless clear liquid	188° C	no	>34640	>5000	66° C	sol
propyl heptanoate	7778-87-2	172.26	10	20	2	0.874	sweet ripe fruity apple pear	colorless clear liquid	207° C	no	no	no	77° C	sol
butyl heptanoate	5454-28-4	186.29	11	22	2	0.872	cut grass herbal fruity apple	colorless clear liquid	227° C	no	no	no	88° C	sol
isoamyl heptanoate	109-25-1	200.32	12	24	2	0.869	fruity herbal grassy banana	colorless clear liquid	225° C	no	no	no	88° C	sol
geranyl heptanoate	73019-15-5	266.42	17	30	2	0.889		colorless to pale yellow clear liquid	349° C	no	no	no	102° C	sol

HEXANOATES

methyl hexanoate	106-70-7	130.18	7	14	2	0.882	pineapple ether	colorless to pale yellow clear liquid	149° C	no	>5000	>5000	45° C	sol
ethyl hexanoate	123-66-0	144.21	8	16	2	0.878	fruity		167° C	no	no	no	49° C	sol
pineapple hydroxyhexanoate	21188-58-9	146.18	7	14	3	1.005	fruity	colorless to pale yellow clear liquid	220° C	no	no	no	85° C	sol
allyl hexanoate	123-68-2	156.22	9	16	2	0.889	fruity	colorless to pale yellow clear liquid	190° C	no	218	300	66° C	sol
propyl hexanoate	626-77-7	158.24	9	18	2	0.876	fruity	colorless clear liquid	187° C	no	no	no	52° C	sol
isopropyl hexanoate	2311-46-8	158.24	9	18	2	0.874	fruity	colorless clear liquid	172° C	no	no	no	49° C	sol
ethyl 3-hydroxyhexanoate	2305-25-1	160.21	8	16	3	0.989	citrus pineapple grape fruity	colorless to pale yellow clear liquid	102° C@14 mm Hg	no	no	no	94° C	sol
butyl hexanoate	626-82-4	172.26	10	20	2	0.874	fruity berry pineapple wine	colorless clear liquid	208° C	no	>5000	>5000	79° C	sol
isobutyl hexanoate	105-79-3	172.26	10	20	2	0.872	sweet fruity pineapple green	colorless clear liquid	177° C	no	>5000	no	76° C	sol
amyl hexanoate	540-07-8	186.29	11	22	2	0.872	sweet green fruity estry pineapple	colorless clear liquid	226° C	no	>5000	>5000	91° C	sol
methyl 5-acetoxyhexanoate	35234-22-1	188.22	9	16	4	1.020	fruity	colorless clear liquid	195° C	no	no	no	102° C	sol
isoamyl hexanoate	2198-61-0	186.29	11	22	2	0.870	fruity banana apple pineapple green	colorless clear liquid	221° C	no	>5000	>5000	85° C	sol
(E)-2-hexen-1-yl hexanoate	53398-86-0	198.30	12	22	2	0.886	sweet fruity green	colorless clear liquid	125° C@25 mm Hg	no	no	no	104° C	sol
(Z)-3-hexen-1-yl hexanoate	31501-11-8	198.30	12	22	2	0.886	green	colorless clear liquid	223° C	no	>5000	5000	104° C	sol
hexyl hexanoate	6378-65-0	200.32	12	24	2	0.870	green	colorless clear oily liquid	245° C	no	no	no	99° C	sol
heptyl hexanoate	6976-72-3	214.34	13	26	2	0.869	damp green sappy freshly	colorless clear liquid	259° C	no	no	no	109° C	sol
rac-heptyl hexanoate	6624-58-4	214.34	13	26	2	0.867		colorless clear liquid	249° C	no	no	no	104° C	sol

phenethyl hexanoate	6290-37-5	220.31	14	20	2	0.880	sweet honey floral waxy woody	colorless clear liquid		no	no	no	>100° C	sol
octyl hexanoate	4887-30-3	228.37	14	28	2	0.867		colorless clear liquid	275° C	no	no	no	120° C	sol
<i>p</i> -anisyl hexanoate	6624-60-8	236.31	14	20	3	1.017			320° C	no	no	no	131° C	sol
geranyl hexanoate	10032-02-7	252.39	16	28	2	0.891	rose geranium fruity waxy	colorless clear oily liquid	240° C	no	>5000	no	>100° C	sol
linalyl hexanoate	7779-23-9	252.39	16	28	2	0.886	green warm fruity animal pear	colorless clear oily liquid	252° C	no	no	no	81° C	sol
neryl hexanoate	68310-59-8	252.39	16	28	2	0.891				no	no	no	101° C	sol

NONANOATES

methyl nonanoate	1731-84-6	172.26	10	20	2	0.874	sweet fruity pear waxy tropical	colorless clear oily liquid	214° C	-34° C	no	no	84° C	sol
ethyl nonanoate	123-29-5	186.29	11	22	2	0.872	fruity rose waxy rum wine	colorless clear liquid	229° C	no	>43000	no	77° C	sol
benzyl hexanoate	6938-45-0	206.28	13	18	2	0.990	green apricot fruity gardenia jasmin	colorless clear liquid	275° C	no	no	no	105° C	sol
isoamyl nonanoate	7779-70-6	228.39	14	28	2	0.866	fruity oily apricot floral	colorless clear oily liquid	260° C	no	no	no	>110° C	sol

OCTANOATES

methyl octanoate	111-11-5	158.24	9	18	2	0.876	waxy green sweet orange aldehydic	colorless clear oily liquid	195° C	no	no	no	73° C	sol
ethyl octanoate	106-32-1	172.26	10	20	2	0.874	fruity wine waxy sweet apricot	colorless clear liquid	207° C	no	25960	no	75° C	sol
isoamyl octanoate	2035-99-6	214.34	13	26	2	0.867	sweet oily fruity green soapy	colorless clear liquid	267° C	no	>5000	>5000	>110° C	sol
(Z)-3-hexen-1-yl octanoate	61444-41-5	226.36	14	26	2	0.881	faint green slightly metallic	colorless clear liquid	292° C	no	no	no	93° C	sol
hexyl octanoate	1117-55-1	228.37	14	28	2	0.867	fruity green waxy berry apple ester	colorless clear liquid	307° C	-31° C	>5000	>5000	>110° C	sol
heptyl octanoate	4265-97-8	242.40	15	30	2	0.866	waxy oily green fresh	colorless clear oily liquid	291° C	-10° C	no	no	130° C	sol
phenethyl octanoate	5457-70-5	248.36	16	24	2	0.963	sweet waxy green cocoa fruity		295° C	no	no	no	>110° C	sol
octyl octanoate	2306-88-9	256.42	16	32	2	0.865	coconut oily fruity	colorless clear liquid	307° C	-17° C	no	no	139° C	sol
nonyl octanoate	7786-48-3	270.45	17	24	2	0.865	sweet rose mushroom floral cognac	colorless clear oily liquid	315° C	no	no	no	149° C	sol
geranyl octanoate	51532-26-4	280.45	18	32	2	0.887	herbal rose fruity	colorless clear liquid	305° C	no	no	no	>100° C	sol
linalyl octanoate	10024-64-3	280.45	18	32	2	0.882	dry fruity herbal sweet green	colorless to pale yellow clear oily liquid		no	no	no	>93° C	sol

PROPIONATES

methyl propionate	554-12-1	88.11	4	8	2	0.898	fresh harsh rum fruity strawberry	colorless clear liquid	80° C	no	5000	>5000	6° C	sol
ethyl propionate	105-37-3	102.13	5	10	2	0.891	fruity	colorless clear liquid	99° C	no	3500	>5000	12° C	sol
propyl propionate	106-36-5	116.16	6	12	2	0.886	sharp chemical pungent	colorless to pale yellow clear liquid	123° C	no	10331	>14128	19° C	sol
isopropyl propionate	637-78-5	116.16	6	12	2	0.883	fruity ether sweet pineapple	colorless clear liquid	109° C	no	no	no	17° C	sol
butyl propionate	590-01-2	130.38	7	14	2	0.882	earthy sweet weak rose	colorless clear liquid	145° C	no	5000	>14000	38° C	sol
isobutyl propionate	540-42-1	130.38	7	14	2	0.879	fruity green ether sweet	colorless clear liquid	138° C	no	5599	no	27° C	sol
isoamyl propionate	105-68-0	144.21	8	16	2	0.876	sweet fruity banana pineapple	colorless clear liquid	158° C	no	>5000	>5000	48° C	sol
(E)-2-hexen-1-yl propionate	53398-80-4	156.22	9	16	2	0.896	green	colorless clear liquid	91° C@20 mm Hg	no	>5000	>5000	66° C	sol
(Z)-3-hexen-1-yl propionate	33467-74-2	156.22	9	16	2	0.896	green	colorless clear liquid	181° C	no	>5000	>5000	60° C	sol
hexyl propionate	2445-76-3	158.24	9	18	2	0.876	pear green fruity musty	colorless clear liquid	180° C	no	>5000	>5000	65° C	sol
benzyl propionate	122-63-4	164.32	10	12	2	1.034	sweet fruity apple banana	colorless clear liquid	222° C	no	3300	>5000	>110° C	sol
phenethyl propionate	122-70-3	178.23	11	14	2	1.016	floral red rose fruity honey	colorless to pale yellow clear liquid	245° C	no	15000	>5000	>100° C	sol
styrallyl propionate	120-45-6	178.23	11	14	2	1.012	fresh sweet floral rose gardenia	colorless clear liquid	92° C@5 mm Hg	no	5200	>5000	94° C	sol
octyl propionate	142-60-9	186.29	11	22	2	0.872	sweet fruity mushroom floral	colorless clear liquid	228° C	no	no	no	99° C	sol
cinnamyl propionate	103-56-0	190.24	12	14	2	1.037	sweet spicy fruity balsam	colorless to pale yellow clear liquid	288° C	no	3400	>5000	>100° C	sol
<i>p</i> -anisyl propionate	7549-33-9	194.23	11	14	3	1.062	herbal fruity cherry peach	pale yellow clear liquid	277° C	no	3330	>5000	>110° C	sol
isobornyl propionate	2756-56-1	210.31	13	22	2	0.990	pungent pine camphor woody	colorless clear liquid	245° C	no	no	no	99° C	sol
geranyl propionate	105-90-8	210.31	13	22	2	0.900	floral fresh waxy fruity rose tropical	colorless clear liquid	253° C	no	>5000	>5000	>110° C	sol
linalyl propionate	144-39-8	210.31	13	22	2	0.894	fresh bergamot lily woody rose rum	colorless clear liquid	226° C	no	>5000	>5000	97° C	sol
neryl propionate	105-91-9	210.31	13	22	2	0.900	fruity floral green jammy berry	colorless clear liquid	233° C	no	>5000	>5000	110° C	sol
terpinyl propionate	80-27-3	210.31	13	22	2	0.953	green woody citrus sweet tropical	colorless to pale yellow clear liquid	258° C	no	no	no	86° C	sol
citronellyl propionate	141-14-0	212.32	13	24	2	0.883	floral green waxy fruity rose citrus	colorless clear liquid	122° C	no	>5000	>5000	>100° C	sol
decyl propionate	5454-19-3	214.34	13	26	2	0.864	ether rum fruity fatty cognac	colorless clear liquid	139° C@15 mm Hg	no	no	no	107° C	sol

SALICYLATES

methyl salicylate	119-36-8	152.15	8	8	3	1.209	minty	colorless to pink clear liquid	223° C	-7° C	1300	no	96° C	sol
ethyl salicylate	118-61-6	166.17	9	10	3	1.168	minty	colorless clear liquid	234° C	4° C	1320	>5000	107° C	sol
dimethyl salicylate	606-45-1	188.17	9	10	3	1.098	herbal	colorless clear liquid	255° C	48° C	3800	>5000	>100° C	sol
amyl salicylate	2050-08-0	208.25	12	16	3	1.085	floral	colorless to pale yellow clear liquid	276° C	no	no	no	>100° C	sol
hexyl salicylate	6259-76-3	222.28	13	18	3	1.067	herbal	colorless clear oily liquid	290° C	no	>5000	>5000	>100° C	sol
benzyl salicylate	118-58-1	228.24	14	12	3	1.224	balsamic	colorless to pale yellow clear liquid to solid	208° C	22° C	2227	14150	>100° C	sol

VALERATES

methyl valerate	624-24-8	116.16	6	12	2	0.886	green	colorless clear liquid	118° C	no	>5000	no	22° C	sol
methyl isovalerate	556-24-1	116.16	6	12	2	0.883	fruity	colorless clear liquid	114° C	no	5693	5690	14° C	sol

ethyl valerate	539-82-2	130.18	7	14	2	0.882	fruity	colorless to pale yellow clear liquid	144° C	no	no	no	39° C	sol
ethyl isovalerate	108-64-5	130.18	7	14	2	0.879	fruity	colorless to pale yellow clear liquid	132° C	no	>5000	>5000	35° C	sol
methyl 4-methyl valerate	2412-80-8	130.18	7	14	2	0.879	fruity	colorless to pale yellow clear liquid	139° C	no	no	no	39° C	sol
propyl valerate	141-06-0	144.21	8	16	2	0.878	ethereal	colorless to pale yellow clear liquid	167° C	no	no	no	38° C	sol
propyl isovalerate	557-00-6	144.21	8	16	2	0.876	fruity	colorless clear liquid	156° C	no	8220	no	32° C	sol
isopropyl isovalerate	32665-23-9	144.21	8	16	2	0.874	fruity	colorless clear liquid	142° C	no	no	no	31° C	sol
butyl valerate	591-68-4	158.24	9	18	2	0.876	fruity	colorless clear liquid	186° C	no	no	no	67° C	sol
isobutyl valerate	10588-10-0	158.24	9	18	2	0.874	fruity	colorless clear liquid	170° C	no	no	no	56° C	sol
butyl isovalerate	109-19-3	158.24	9	18	2	0.874	fruity	colorless to pale yellow clear liquid	174° C	no	>5000	>5000	56° C	sol
isobutyl isovalerate	589-59-3	158.24	9	18	2	0.872	fruity	colorless to pale yellow clear liquid	142° C	no	6970	>5000	39° C	sol
ethyl 2-hydroxy-3-methyl valerate	24323-38-4	160.21	8	16	3	0.986	fruity	colorless clear liquid	205° C	no	no	no	74° C	sol
amyl isovalerate	25415-62-7	172.26	10	20	2	0.872	fruity	colorless clear liquid	170° C	no	no	no	71° C	sol
isoamyl valerate	2050-09-1	172.26	10	20	2	0.872	fruity	colorless clear liquid	186° C	no	no	no	65° C	sol
isoamyl isovalerate	659-70-1	172.26	10	20	2	0.870	fruity	colorless clear liquid	192° C	no	13956	5000	67° C	sol
2-methyl butyl isovalerate	2445-77-4	172.26	10	20	2	0.870	fruity	colorless clear liquid	375° C	no	>5000	no	72° C	sol
furfuryl isovalerate	13678-60-9	182.22	10	14	3	1.041	fruity	colorless to pale yellow clear liquid	98° C	no	no	no	96° C	sol
(E)-2-hexen-1-yl isovalerate	68698-59-9	184.28	11	20	2	0.887	green	colorless clear liquid	105° C @2 mm Hg	no	no	no	82° C	sol
(Z)-3-hexen-1-yl valerate	35852-46-1	184.28	11	20	2	0.889	green	colorless clear liquid	109° C @20 mm Hg	no	>5000	5000	89° C	sol
(Z)-3-hexen-1-yl isovalerate	35154-45-1	184.28	11	20	2	0.887	green	colorless clear liquid	199° C	no	>4900	no	60° C	sol
3-hexen-1-yl isovalerate	10032-11-8	184.28	11	20	2	0.887	sweet green apple	colorless clear liquid	231° C	no	no	no	79° C	sol
hexyl valerate	1117-59-5	186.29	11	22	2	0.872	fruity	colorless clear liquid	226° C	no	no	no	88° C	sol
hexyl isovalerate	10032-13-0	186.29	11	22	2	0.870	fruity	colorless clear liquid	215° C	no	>5000	>5000	88° C	sol
benzyl valerate	10361-39-4	192.25	12	16	2	1.002	fruity floral apple skin	colorless clear liquid	236° C	no	no	no	>100° C	sol
benzyl isovalerate	103-38-8	192.25	12	16	2	1.000	fruity	colorless to pale yellow clear liquid	245° C	no	>5000	>5000	>100° C	sol
para-cresyl isovalerate	55066-56-3	192.25	12	16	2	0.994	tobacco	colorless clear oily liquid	103° C @ 2 mm Hg	no	no	no	98° C	sol
heptyl isovalerate	56423-43-9	200.32	12	24	2	0.869	fruity	colorless clear liquid	231° C	no	no	no	94° C	sol
phenethyl isovalerate	140-26-1	206.28	13	18	2	0.988	floral	colorless clear liquid	265° C	no	6220	>5000	>100° C	sol
octyl valerate	5451-85-4	214.34	13	26	2	0.869	fruity	colorless clear liquid	261° C	no	no	no	109° C	sol
octyl isovalerate	7786-58-5	214.34	13	26	2	0.867	floral	colorless clear liquid	250° C	no	no	no	>110° C	sol
cinnamyl isovalerate	140-27-2	218.29	14	18	2	1.006	fermented	colorless to pale yellow clear liquid	314° C	no	5000	>5000	>100° C	sol
isobornyl isovalerate	7779-73-9	238.37	15	26	2	0.970	woody	colorless to pale yellow clear liquid	258° C	no	no	no	110° C	sol
bornyl isovalerate	59672-05-8	238.37	15	26	2	0.970	fruity	colorless clear liquid	260° C	no	no	no	117° C	sol
geranyl valerate	10402-47-8	238.37	15	26	2	0.894	floral	colorless clear liquid	290° C	no	no	no	93° C	sol
linalyl isovalerate	1118-27-0	238.37	15	26	2	0.885	herbal	colorless clear oily liquid	188° C	no	no	no	89° C	sol
neryl isovalerate	3915-83-1	238.37	15	26	2	0.893	floral	colorless clear liquid	252° C	no	no	no	110° C	sol
terpinyl valerate	14481-55-1	238.37	15	26	2	0.940	floral	colorless clear liquid	295° C	no	no	no	91° C	sol
citronellyl valerate	7540-53-6	240.38	15	28	2	0.879	floral	colorless clear liquid	238° C	no	no	no	>110° C	sol
citronellyl isovalerate	68922-10-1	240.38	15	28	2	0.877	floral	colorless clear liquid	237° C	no	no	no	91° C	sol
menthyl isovalerate	16409-46-4	240.38	15	28	2	0.910	floral	colorless clear oily liquid	261° C	no	>5000	>5000	>110° C	sol
eugenyl isovalerate	61114-24-7	248.32	15	20	3	1.011	spicy	white solid	315° C	85° C	no	no	128° C	sol

ETHERS

sec-butyl ethyl ether	2679-87-0	102.17	6	14	1	0.760	fruity	colorless clear liquid	81° C	no	no	no	no	sol
anisole	100-66-3	108.14	7	8	1	0.953	phenolic	colorless clear liquid	155° C	38° C	3700	no	52° C	sol
furfuryl methyl ether	13679-46-4	112.13	6	8	2	1.006	coffee	colorless to yellow clear liquid	132° C	no	no	no	22° C	sol
methyl hexyl ether	4747-07-3	116.20	7	16	1	0.772	herbal	colorless clear liquid	126° C	no	no	no	23° C	sol
benzyl methyl ether	538-86-3	122.16	8	10	1	0.949	fruity	pale yellow clear liquid	170° C	no	no	no	54° C	sol
hydroquinone monomethyl ether	150-76-5	124.14	7	8	2	1.109	fruity	white crystalline powder	244° C	54° C	1600	no	121° C	sol
benzyl ethyl ether	539-30-0	136.19	9	12	1	0.938	fruity	colorless clear oily liquid	185° C	no	no	no	62° C	sol
hydroquinone monoethyl ether	622-62-8	138.16	8	10	2	1.076	animal	white crystals	246° C	66° C	no	no	124° C	sol
estragole (methyl chavicol)	140-67-0	148.20	10	12	1	0.938	anisic	colorless to pale yellow clear liquid	215° C	no	1230	>5000	81° C	sol
dill ether	74410-10-9	152.23	10	16	1	0.933	herbal	colorless clear liquid	207° C	no	no	no	73° C	sol
carvacryl methyl ether	6379-73-3	164.24	11	16	1	0.913	herbal spicy leafy	colorless to pale yellow clear liquid	217° C	no	no	no	74° C	sol
thymyl methyl ether	1076-56-8	164.24	11	16	1	0.913	herbal	colorless clear liquid	215° C	no	no	no	92° C	sol
alpha-terpinyl methyl ether	14576-08-0	168.28	11	20	1	0.884	citrus	colorless to pale yellow clear liquid	200° C	no	no	no	83° C	sol
difurfuryl ether	4437-22-3	178.18	10	10	3	1.150	coffee	colorless to yellow clear liquid	89° C @1 mm Hg	no	210	no	106° C	sol
raspberry ketone methyl ether	104-20-1	178.22	11	14	2	1.010	fruity	colorless to pale yellow clear oily liquid	277° C	8° C	>5000	>5000	>110° C	sol

OXIDES

mesityl oxide	141-79-7	98.14	6	10	1	0.830	vegetable	colorless to yellow oily liquid	129° C	no	1120	5150	31° C	sol
chrysanthemum oxide	3558-60-9	136.19	9	12	1	0.938	green	colorless clear liquid	186° C	no	4100	3970	66° C	sol
dehydroxylinalool oxide	13679-86-2	152.23	10	16	1	0.925	herbal	colorless clear liquid	167° C	no	>1000	no	46° C	sol
limonene oxide	1195-92-2	152.23	10	16	1	0.972	fruity	colorless to pale yellow clear liquid	197° C	no	2700	no	66° C	sol
nerol oxide	1786-08-9	152.23	10	16	1	0.945	green	colorless clear liquid	202° C	no	5000	>5000	71° C	sol
geranic oxide	7392-19-0	154.25	10	18	1	0.880	herbal	colorless clear liquid	170° C	no	no	no	58° C	sol
(Z)-rose oxide	16409-43-1	154.25	10	18	1	0.909	green	pale yellow to yellow clear liquid	86° C@20 mm Hg	no	4300	no	69° C	sol
carvone oxide	33204-74-9	166.22	10	14	2	1.086			255° C	no	no	no	107° C	sol
(Z)-carvone-5,6-oxide	18383-49-8	166.22	10	14	2	1.086	minty	colorless clear liquid	105° C@5 mm Hg	no	no	no	107° C	sol
piperitenone oxide	35178-55-3	166.22	10	14	2	1.112	herbal	colorless solid	255° C	25° C	no	no	107° C	sol
linalool oxide	1365-19-1	170.25	10	18	2	1.016	floral	colorless clear liquid	188° C	no	1150	2500	63° C	sol
linalool oxide (furanoid)	60047-17-8	170.25	10	18	2	1.023	balsamic	pale yellow clear liquid	193° C	no	1150	2500	73° C	sol
(E)-linalool oxide (furanoid)	34995-77-2	170.25	10	18	2	1.023	floral	colorless clear liquid	201° C	no	no	no	61° C	sol
(Z)-linalool oxide (furanoid)	5989-33-3	170.25	10	18	2	1.023	floral	colorless to pale yellow clear liquid	190° C	no	no	no	75° C	sol
β -caryophyllene oxide	1139-30-6	220.35	15	24	1	0.980	woody	pale yellow white crystalline solid		62° C	>5000	>2000	>100° C	sol
humulene oxide I	19888-33-6	220.35	15	24	1	0.907	herbal	colorless to pale yellow clear liquid	282° C	no	no	no	122° C	sol
humulene oxide II	19888-34-7	220.35	15	24	1	0.907		colorless to pale yellow clear liquid	286° C	no	no	no	123° C	sol
guaiaoxide	20149-50-2	222.37	15	26	1	0.970			261° C	no	no	no	98° C	sol
ambroxide	65588-69-4	234.38	16	26	1	0.938	amber	colorless clear liquid	267° C	no	no	no	100° C	sol
manoyl oxide	596-84-9	290.48	20	34	1	0.941			338° C	no	no	no	155° C	sol

ACIDS

SATURATED FAT ACIDS

formic acid	64-18-6	46.03	1	2	2	1.154	acidic	colorless clear fuming liquid	101° C	8° C	1830	no	69° C	no
acetic acid	64-19-7	60.05	2	4	2	1.068	acidic	colorless clear liquid	117° C	17° C	3310	1050	40° C	sol
propionic acid	79-09-4	74.08	3	6	2	1.019	acidic	colorless to pale yellow clear liquid	140° C	-24° C	2600	500	52° C	sol
butyric acid	107-92-6	88.11	4	8	2	0.987	cheesy	colorless clear liquid	163° C	-6° C	2000	530	75° C	sol
isobutyric acid	79-31-2	88.11	4	8	2	0.983	acidic	colorless clear liquid	153° C	-46° C	280	500	56° C	sol
2-methyl butyric acid	116-53-0	102.13	5	10	2	0.962	acidic	colorless to pale yellow clear liquid	177° C	no	3200	10000	74° C	sol
valeric acid	109-52-4	102.13	5	10	2	0.966	cheesy	colorless to pale yellow clear liquid	185° C	-35° C	600	no	89° C	sol
isovaleric acid	503-74-2	102.13	5	10	2	0.966	cheesy	colorless to pale yellow clear liquid	176° C	-29° C	2	310	71° C	sol
2-ethyl butyric acid	88-09-5	116.16	6	12	2	0.947	acidic	yellow brown clear liquid	193° C	-14° C	2200	520	88° C	sol
hexanoic acid	142-62-1	116.16	6	12	2	0.950	fatty	colorless to pale yellow clear oily liquid	203° C	-4° C	2050	630	104° C	sol
3-methyl valeric acid	105-43-1	116.16	6	12	2	0.947	animal	colorless clear liquid	197° C	no	no	no	85° C	sol
heptanoic acid	111-14-8	130.18	7	14	2	0.938	cheesy	colorless clear liquid	222° C	-7° C	7000	no	>110° C	sol
2-methyl hexanoic acid	4536-23-6	130.18	7	14	2	0.935	cheesy		210° C	no	no	no	102° C	sol
5-methyl hexanoic acid	628-46-6	130.18	7	14	2	0.935	fatty	colorless clear liquid	216° C	no	no	no	102° C	sol
octanoic acid	124-07-2	144.21	8	16	2	0.929	fatty	colorless clear oily liquid	238° C	16° C	10080	>5000	>110° C	sol
4-methyl octanoic acid	54947-74-9	158.24	9	18	2	0.919	fatty	colorless to pale yellow clear liquid	149° C@22 mm Hg	no	no	no	>110° C	sol
nonanoic acid	112-05-0	158.24	9	18	2	0.921	waxy	colorless to pale yellow clear oily liquid	268° C	32° C	>5000	>2000	100° C	sol
decanoic acid	334-48-5	172.26	10	20	2	0.915	fatty	white crystals	269° C	30° C	>10000	no	>100° C	sol
undecanoic acid	112-37-8	186.29	11	22	2	0.909	waxy	colorless crystals	228° C@160 mm Hg	30° C	no	no	>110° C	sol
lauric acid	143-07-7	200.32	12	24	2	0.905	fatty coconut bay oil	white waxy solid	225° C@100 mmHg	48° C	12000	no	>110° C	sol
tridecanoic acid	638-53-9	214.34	13	26	2	0.901	waxy woody	white crystalline solid	312° C	42° C	no	no	113° C	sol
myristic acid	544-63-8	228.37	14	28	2	0.898	waxy fatty citrus peel	white waxy solid	250° C@100 mmHg	55° C	10	no	>110° C	sol
pentadecanoic acid	1002-84-2	242.40	15	30	2	0.865	waxy	white solid	340° C	52° C	no	no	113° C	sol
palmitic acid	57-10-3	256.42	16	32	2	0.892	slightly fatty waxy	white waxy solid	300° C	64° C	10	no	114° C	sol
stearic acid	57-11-4	284.48	18	36	2	0.888	odorless	white waxy powder	184° C	68° C	4640	5	>110° C	no

UNSATURATED FAT ACIDS

2-butenic acid	3724-65-0	86.09	4	6	2	1.039	burnt	white solid	185° C	72° C	1000	600000	86° C	sol
(E)-2-butenic acid	107-93-7	86.09	4	6	2	1.039	milky	white solid	185° C	72° C	no	no	88° C	sol
(E)-2-pentenoic acid	13991-37-2	100.12	5	8	2	1.008	cheesy	colorless clear liquid	198° C	10° C	no	no	102° C	sol
(E)-tiglic acid	80-59-1	100.12	5	8	2	1.010	spicy	white crystals	199° C	56° C	>5000	>5000	102° C	sol
(Z)-tiglic acid	565-63-9	100.12	5	8	2	1.010	spicy	pale yellow crystalline solid	185° C	45° C	no	no	96° C	sol
(E)-2-hexenoic acid	13419-69-7	114.14	6	10	2	0.985	fruity	colorless crystalline needles	217° C	31° C	no	no	>110° C	sol

3-hexenoic acid	4219-24-3	114.14	6	10	2	0.985		colorless clear liquid	209° C	11° C	no	no	106° C	sol
(E)-3-hexenoic acid	1577-18-0	114.14	6	10	2	0.985	cheesy	colorless to pale yellow clear liquid	119° C@22 mm Hg	11° C	no	no	104° C	sol
(Z)-3-hexenoic acid	1775-43-5	114.14	6	10	2	0.985	green	colorless to pale yellow clear liquid	210° C	no	no	no	99° C	sol
2-methyl-2-pentenoic acid	3142-72-1	114.14	6	10	2	0.987	acidic	colorless to pale yellow crystals	125° C@30 mm Hg	25° C	no	no	108° C	sol
4-methyl-2-pentenoic acid	10321-71-8	114.14	6	10	2	0.982	fatty fruity	pale yellow clear liquid	204° C	35° C	no	no	106° C	sol
(E)-2-octenoic acid	1871-67-6	142.20	8	14	2	0.955	acidic	colorless clear liquid	154° C@22 mm Hg	6° C	no	no	>100° C	sol
(E)-2-decenoic acid	334-49-6	170.25	10	18	2	0.936	fruity	colorless clear liquid	278° C	12° C	no	no	>110° C	sol
2-nonenic acid	3760-11-0	156.22	9	16	2	0.944	fatty	colorless clear liquid	173° C@20 mm Hg	no	no	no	>100° C	sol
4-decenoic acid	26303-90-2	170.25	10	18	2	0.936	fruity	colorless clear liquid			no	no	172° C	sol
3,7-dimethyl-6-octenoic acid	502-47-6	170.25	10	18	2	0.935	green	colorless to yellow clear liquid	126° C@4 mm Hg	no	2610	450	>110° C	sol
linoleic acid	60-33-3	280.44	18	32	2	0.911		colorless to pale yellow clear oily liquid	366° C	-5° C	50	no	>110° C	sol
oleic acid	112-80-1	282.46	18	34	2	0.899	faint fatty waxy lard fried	colorless to pale yellow liquid	195° C@1.2 mm Hg	13° C@0 mm Hg	5000	no	113° C	no

OTHER ACIDS

pyruvic acid	127-17-3	88.06	3	4	3	1.261	acidic	colorless to pale yellow green clear viscous liquid	165° C	12° C	no	no	84° C	sol
lactic acid	50-21-5	90.10	3	6	3	1.276	odorless	colorless clear liquid		17° C	3543	>2000	>110° C	sol
fumaric acid	110-17-8	116.07	4	4	4	1.499	odorless	white colorless crystals	299° C	no	9300	5000	>110° C	sol
levulinic acid	123-76-2	116.12	5	8	3	1.129	caramellic	yellow to brown clear liquid	245° C	31° C	1850	>5000	138° C	sol
succinic acid	110-15-6	118.09	4	6	4	1.408	odorless	colorless crystals	235° C	187° C	2260	no	111° C	sol
benzoic acid	65-85-0	122.12	7	6	2	1.197	faint balsam urine	white crystals	250° C	132° C	1700	>10000	121° C	sol
cyclohexyl carboxylic acid	98-89-5	128.17	7	12	2	1.079	fruity	white crystalline solid	232° C	31° C	3265	no	>110° C	sol
malic acid	6915-15-7	134.09	4	6	5	1.641	odorless	white crystals	306° C	133° C	3500	no	153° C	no
L-malic acid	97-67-6	134.09	4	6	5	1.941	odorless		140° C	100° C	1600	no	153° C	sol
phenyl acetic acid	103-82-2	136.15	8	8	2	1.164	honey	white crystalline powder	165° C	77° C	2250	>5000	100° C	sol
salicylic acid	69-72-7	138.12	7	6	3	1.375	faint nutty	white powder	336° C	160° C	891	>10000	>100° C	sol
cinnamic acid	621-82-9	148.16	9	8	2	1.184	balsamic	pale amber powder	299° C	133° C	2500	no	189° C	sol
(E)-cinnamic acid	140-10-3	148.16	9	8	2	1.184	balsamic	pale amber powder	300° C	133° C	no	no	>100° C	no
α-ketoglutaric acid	328-50-7	146.10	5	6	5	1.499		white to pale yellow crystals	323° C	116° C	no	no	no	no
3-phenyl propionic acid	501-52-0	150.17	9	10	2	1.125	floral	white crystals	280° C	48° C	no	no	>110° C	sol
p-anisic acid	100-09-4	152.15	8	8	3	1.207	animal	colorless crystals	277° C	185° C	no	no	185° C	sol
phenoxyacetic acid	122-59-8	152.15	8	8	3	1.221	honey	colorless crystals	285° C	101° C	1500	>5000	115° C	sol
geranic acid	459-80-3	168.23	10	16	2	0.960	green	colorless to pale yellow clear oily liquid	250° C	no	3700	1750	110° C	sol
gallic acid	149-91-7	170.12	7	6	5	1.749		white solid powder	500° C	246° C	5000	no	271° C	sol
(E)-aconitic acid	4023-65-8	174.11	6	6	6	1.660	vegetable	yellow crystals		195° C	no	no	no	sol
ascorbic acid	50-81-7	176.12	6	8	6	1.954	odorless	white to yellowish powder crystals		192° C	11900	no	>100° C	no
citric acid	77-92-9	192.12	6	8	7	1.762	odorless	white crystals	310° C	133° C	3000	no	>110° C	no
2-(4-methoxyphenoxy) propionic acid	13794-15-5	196.20	10	12	4	1.185		white solid	no	no	no	no	130° C	sol
syngic acid	530-57-4	198.17	9	10	5	1.335		white to pale tan solid powder	439° C	204° C	no	no	155° C	sol

OTHERS

xanthoxylin	90-24-4	196.20	10	12	4	1.172	borneol camphor		no	82° C	no	no	141° C	sol
safrole	94-59-7	162.19	10	10	2	1.118	spicy	colorless to pale yellow clear liquid	233° C	11° C	1950	>5000	98° C	sol
myristicin	607-91-0	192.21	11	12	3	1.137	spice warm balsam woody	colorless clear liquid	173° C@40 mm Hg	no	4260	no	90° C	sol