使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1086	JFFMA	186	anisole	2	98				1.514-1.520	0.993-0.999				1,2,3,5,6	3,4,5	3(C,H),6
	JECFA		anisole		99				1.515-1.518	0.990-0.993	1.0			IR		
	FCC		Anisol		97	GC(M-1b)			1.515-1.518	0.990-0.993				IR		
	流通		anisole		98.0				1.514-1.519	0.993-0.999	1.0					
	流通		anisole		98				1.514-1.519	0.993-0.999	1					
	流通		anisole		>98				1.514-1.519	0.993-0.999	1					
	流通		anisole													
	再調査		anisole													
	再調査		anisole		99(カタログデータ)					1.00(カタログデータ)--						
	再調査		anisole		97		MP	8-	1.431-1.439	0.879-0.884	10					
1087	JFFMA	1670	methyl lactate	1	97				1.410-1.420	1.090-1.100	1			3,5	3,4	3(C)
	流通		methyl lactate		98				1.410-1.420	1.090-1.100	1					
	流通		methyl lactate		>98					1.09						
	流通		methyl lactate			98.0			1.410-1.420	1.090-1.100	1					
	流通		methyl lactate			98.0			1.410-1.420	1.090-1.100	1					
	流通		methyl lactate													
	再調査		methyl lactate													
	再調査		methyl lactate													
	再調査		methyl lactate													
	再調査		methyl lactate			98			1.41-1.42	1.09-1.1	1					
	再調査		methyl lactate		97				1.411-1.417							
	再調査		methyl lactate		98				1.411-1.417	1.092-1.098	1					
1088	JFFMA	2289	sclareolide	9,17	98		MP	121-125			1		10	1,2,6	2	1,6
	JECFA		sclareolide		98		MP	124			1.0			IR NMR		
	流通		sclareolide		98											
	流通		sclareolide		98			122-125			1					
	再調査		sclareolide			98.5	MP	121-125								
	再調査		sclareolide		98		MP	122-125			1					
	再調査		sclareolide													
	再調査		sclareolide													
	再調査		sclareolide		97											
1089	JFFMA	1734	3-(5-methyl-2-furyl)butanal	1	99				1.470-1.476	1.008-1.018	10					1
	JECFA		3-(5-Methyl-2-furyl)-butanal		98				1.575-1.581	1.006-1.012	3.0			NMR		
	流通		3-(5-methyl-2-furyl)butanal		99											
	流通		3-(5-methyl-2-furyl)butanal		99				1.470-1.474							
	流通		3-(5-methyl-2-furyl)butanal		98				1.470-1.476	0.996-1.006						
	再調査		3-(5-methyl-2-furyl)butanal		99				1.47-1.476	1.008-1.018						
	再調査		3-(5-methyl-2-furyl)butanal		99											

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1094	JFFMA	621	2-methyl-4-phenyl-2-butyl isobutyrate	1	97				1.475-1.485	0.950-0.959	1					1
	JECFA		2-methyl-4-phenyl-2-butyl isobutyrate		96				1.475-1.485	0.949-0.959	1.0			NMR		
	流通		2-methyl-4-phenyl-2-butyl isobutyrate		96											
	流通		2-methyl-4-phenyl-2-butyl isobutyrate		>98											
	流通		2-methyl-4-phenyl-2-butyl isobutyrate													
	流通		2-methyl-4-phenyl-2-butyl isobutyrate													
	再調査		2-methyl-4-phenyl-2-butyl isobutyrate		98											
	再調査		2-methyl-4-phenyl-2-butyl isobutyrate		98				1.477-1.482	0.954-0.959						
	再調査		2-methyl-4-phenyl-2-butyl isobutyrate		98				1.475-1.485							
	再調査		2-methyl-4-phenyl-2-butyl isobutyrate		97				1.477-1.482	0.95-0.958						
1095	JFFMA	2269	3-hydroxyphenol	10,18	98		MP	105-115					10	1,3,5,6	3,4,5	3,6
	JECFA		Resorcinol		98-		MP	<109						IR		
	流通		3-hydroxyphenol		99			105-112						IR		
	再調査		3-hydroxyphenol		98		MP	108-112								
	再調査		3-hydroxyphenol				MP	105.0-112.0								
	再調査		3-hydroxyphenol		98		MP	109-115								
1098	JFFMA	1184	cis-3-hexenyl salicylate	3	96				1.517-1.527	1.060-1.070	2			3	3	3(C,H)
	流通		cis-3-hexenyl salicylate		98				1.443-1.447	1.060-1.066						
	流通		cis-3-hexenyl salicylate		97.0				1.518-1.525	1.062-1.070	2					
	流通		cis-3-hexenyl salicylate		97.0				1.518-1.525	1.062-1.070	2					
	流通		cis-3-hexenyl salicylate		>97											
	流通		cis-3-hexenyl salicylate		>95											
	流通		cis-3-hexenyl salicylate			98.0			1.519-1.522	1.060-1.064	1					
	流通		cis-3-hexenyl salicylate			98.0			1.519-1.522	1.060-1.064	1					
	流通		cis-3-hexenyl salicylate			96			1.519-1.521	1.061-1.066	1					
	流通		cis-3-hexenyl salicylate													
	流通		cis-3-hexenyl salicylate													
	再調査		cis-3-hexenyl salicylate		96				1.519-1.521	1.061-1.065	1		10			
	再調査		cis-3-hexenyl salicylate		97											
	再調査		cis-3-hexenyl salicylate		97				1.518-1.525	1.062-1.07	2					
	再調査		cis-3-hexenyl salicylate													
1099	JFFMA	737	ethyl 2,4-decadienoate	3	98				1.481-1.490	0.898-0.906(25℃)	1			5		
	流通		ethyl 2,4-decadienoate		98				1.481-1.490	0.898-0.906(25℃)						
	流通		ethyl 2,4-decadienoate		98				1.481-1.490	0.898-0.906						
	流通		ethyl 2,4-decadienoate		95.0					0.899-0.905						
	流通		ethyl 2,4-decadienoate			98			1.481-1.490	0.898-0.906						
	流通		ethyl 2,4-decadienoate													
	流通		ethyl 2,4-decadienoate													
	再調査		ethyl 2,4-decadienoate		98				1.481-1.49	0.898-0.906						
	再調査		ethyl 2,4-decadienoate		99				1.411-1.421	1.04-1.07	1					
	再調査		ethyl 2,4-decadienoate													

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1103	JFFMA	1369	isobutyl valerate	1	98				1.406-1.412	0.859-0.865	1				4,5	
	流通		isobutyl valerate		98.0	98.0			1.407-1.411	0.859-0.864	1					
	流通		isobutyl valerate		98.0	98.0			1.407-1.411	0.859-0.864	1					
	流通		isobutyl valerate		98	98			1.407-1.411	0.859-0.864	1					
	流通		isobutyl valerate		>95											
	流通		isobutyl valerate			98			1.407-1.411	0.859-0.864	1					
	流通		isobutyl valerate													
	再調査		isobutyl valerate		98				1.406-1.412	0.859-0.865	1					
	再調査		isobutyl valerate													
1105	JFFMA	2142	2-phenyl-2-butenal	3	95				1.553-1.566	1.024-1.039	10				4	1
	JECFA		2-phenyl-2-butenal		97				1.558-1.564	1.031-1.037	5.0			NMR		
	流通		2-phenyl-2-butenal		97				1.5599							
	流通		2-phenyl-2-butenal		85											
	流通		2-phenyl-2-butenal		>98				1.555-1.566	1.024-1.039						
	流通		2-phenyl-2-butenal		98				1.555-1.566	1.029-1.039						
	流通		2-phenyl-2-butenal													
	流通		2-phenyl-2-butenal													
	流通		2-phenyl-2-butenal													
	流通		2-phenyl-2-butenal						1.558-1.562							
	再調査		2-phenyl-2-butenal						1.555-1.566	1.029-1.039			10			
	再調査		2-phenyl-2-butenal		95				1.555-1.566	1.024-1.039						
	再調査		2-phenyl-2-butenal		95				1.555-1.566	1.029-1.039						
	再調査		2-phenyl-2-butenal		98				1.555-1.566	1.029-1.039						
	再調査		2-phenyl-2-butenal		90.00											
	再調査		2-phenyl-2-butenal		97				1.558-1.564							
	再調査		2-phenyl-2-butenal		97				1.558-1.564							
	再調査		2-phenyl-2-butenal		98				1.555-1.566	1.029-1.039						
	再調査		2-phenyl-2-butenal						1.553-1.563							
	再調査		2-phenyl-2-butenal		98				1.555-1.566	1.029-1.039						
	再調査		2-phenyl-2-butenal													
	再調査		2-phenyl-2-butenal		98				1.555-1.566	1.029-1.039						
	再調査		2-phenyl-2-butenal		98				1.555-1.566	1.029-1.039						
1106	JFFMA	296	butyl methacrylate	3	99				1.422-1.426	0.893-0.899	1			3.6	3,4,5	3(C,H),6
	流通		butyl methacrylate		99				1.422-1.426	0.893-0.899	0					
	流通		butyl methacrylate													
	再調査		butyl methacrylate		99(カタログデータ)					0.90(カタログデータ)--						
1108	JFFMA	725	2-ethoxy-3(5)(6)-methylpyrazine	2	99				1.494-1.497	1.033-1.037				1.5	5	6
	JECFA		Methyl-3(or 5 or 6)-ethoxypyrazine		97				1.493-1.497	1.034-1.041				IR		
	流通		2-ethoxy-3(5)(6)-methylpyrazine		99				1.494-1.497	1.033-1.037(25C)						
	再調査		2-ethoxy-3(5)(6)-methylpyrazine		99				1.494-1.497	1.033-1.037			10			
	再調査		2-ethoxy-3(5)(6)-methylpyrazine		99.00				1.494-1.497	1.033-1.037						

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1113	JFFMA	1941	2,4-nonadienal	3	90				1.516-1.526	0.869-0.879	5				4,5	
	流通		2,4-nonadienal		95				1.518-1.526	0.862-0.870						
	流通		2,4-nonadienal		95				1.517-1.523	0.865-0.880						
	流通		2,4-nonadienal		93				1.522-1.525	0.850-0.873						
	流通		2,4-nonadienal		90				1.522-1.525	0.866-0.870(25C)						
	流通		2,4-nonadienal		>95											
	流通		2,4-nonadienal		>90											
	流通		2,4-nonadienal			96.0										
	流通		2,4-nonadienal			96.0			1.518-1.524	0.870-0.876	5					
	流通		2,4-nonadienal						1.519-1.524							
	流通		2,4-nonadienal			93			1.522-1.525	0.850-0.873						
	再調査		2,4-nonadienal		90											
	再調査		2,4-nonadienal			96.0										
	再調査		2,4-nonadienal		95				1.517-1.523	0.865-0.88						
	再調査		2,4-nonadienal						1.517-1.524	0.87-0.878	5					
	再調査		2,4-nonadienal		95				1.522-1.525	0.869-0.873	3					
	再調査		2,4-nonadienal		92				1.47-1.49	0.859-0.865						
1115	JFFMA	457	cyclohexyl propionate	1	98				1.439-1.445	0.953-0.962	1			3,5	3,4,5	1,3(C,H)
	JECFA		cyclohexyl propionate		97				1.439-1.446	0.969-0.974	1.0			NMR		
	流通		cyclohexyl propionate		98.00	98			1.439-1.445	0.953-0.959						
	流通		cyclohexyl propionate		98.0	98.0			1.439-1.445	0.953-0.959	1					
	流通		cyclohexyl propionate		98.0	98.0			1.439-1.445	0.953-0.959	1					
	流通		cyclohexyl propionate		98				1.440-1.445	0.955-0.962	1					
	流通		cyclohexyl propionate													
	流通		cyclohexyl propionate								1					
	流通		cyclohexyl propionate													
	再調査		cyclohexyl propionate													
	再調査		cyclohexyl propionate		98				1.438-1.444	0.953-0.959	1					
	再調査		cyclohexyl propionate													
	再調査		cyclohexyl propionate													
	再調査		cyclohexyl propionate													
	再調査		cyclohexyl propionate		98				1.439-1.445	0.953-0.959	1					
	再調査		cyclohexyl propionate			98			1.44-1.445	0.955-0.962	1					
1116	JFFMA	1650	methyl formate	1	95				1.341-1.346	0.970-0.976	特例除外			3,6	3,4,5	3(C,H),6
	流通		methyl formate		95	95			1.341-1.346	0.970-0.976						
	流通		methyl formate		95				1.341-1.346	0.97-0.976						
	流通		methyl formate													
	流通		methyl formate													
	流通		methyl formate													
	流通		methyl formate													
	再調査		methyl formate		95	95			1.341-1.346	0.97-0.976						
	再調査		methyl formate													
	再調査		methyl formate													
	再調査		methyl formate													

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1117	JFFMA	1823	alpha-methylcinnamaldehyde	3	95				1.597-1.607	1.034-1.044	5			1,2,3,6	3,4,5	3(C,H),6
	JECFA		alpha-Methylcinnamaldehyde		95				1.598-1.607	1.034-1.040	5.0			IR		
	FCC		α-Methylcinnamaldehyde		97	one major isomer /GC(M-1b)			1.602-1.607	1.035-1.039	5.0			IR		
	流通		alpha-methylcinnamaldehyde		95.0				1.601-1.607	1.036-1.042	2					
	流通		alpha-methylcinnamaldehyde		95				1.601-1.607	1.036-1.042	2					
	流通		alpha-methylcinnamaldehyde			95.0			1.598-1.607	1.036-1.043	3					
	流通		alpha-methylcinnamaldehyde													
	流通		alpha-methylcinnamaldehyde								3					
	流通		alpha-methylcinnamaldehyde													
	流通		alpha-methylcinnamaldehyde													
	流通		alpha-methylcinnamaldehyde													
	再調査		alpha-methylcinnamaldehyde		97				1.602-1.607	1.305-1.309	5					
	再調査		alpha-methylcinnamaldehyde			95			1.598-1.607	1.036-1.043	3					
	再調査		alpha-methylcinnamaldehyde		97	97			1.602-1.607	1.036-1.039	2					
	再調査		alpha-methylcinnamaldehyde		95				1.601-1.607	1.036-1.042	2					
	再調査		alpha-methylcinnamaldehyde		97	95			1.601-1.607	1.036-1.042	2					
1120	JFFMA	1979	cis-6-nonenyl acetate	3	93				1.432-1.442	0.885-0.895	1			3	3	3(C)
	流通		cis-6-nonenyl acetate		98				1.435-1.44	0.887-0.892						
	流通		cis-6-nonenyl acetate		95											
	流通		cis-6-nonenyl acetate		93											
	流通		cis-6-nonenyl acetate		93				1.435-1.438	0.888-0.893	1					
	流通		cis-6-nonenyl acetate		>98				1.435-1.440	0.887-0.892	1					
	流通		cis-6-nonenyl acetate		>93				1.435-1.438	0.888-0.893	1					
	流通		cis-6-nonenyl acetate			98.0			1.433-1.443	0.885-0.895	1					
	流通		cis-6-nonenyl acetate													
	流通		cis-6-nonenyl acetate													
	流通		cis-6-nonenyl acetate													
	再調査		cis-6-nonenyl acetate		98				1.435-1.44	0.887-0.892	1					
	再調査		cis-6-nonenyl acetate		97	93			1.435-1.438	0.888-0.893	1					
	再調査		cis-6-nonenyl acetate		95.00											
	再調査		cis-6-nonenyl acetate		95				1.432-1.442							
	再調査		cis-6-nonenyl acetate		92(カタログデータ)					0.89(カタログデータ)--						
	再調査		cis-6-nonenyl acetate		93				1.435-1.438	0.888-0.893	1		10			
	再調査		cis-6-nonenyl acetate		93				1.435-1.438	0.888-0.893	1		10			

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1126	JFFMA	2026	1-octen-3-yl acetate	3	95				1.418-1.428	0.873-0.883	1			2	4	
	FCC		1-Octen-3-yl Acetate		95	GC(M-1b)			1.418-1.428	0.865-0.886				IR		
	流通		1-octen-3-yl acetate		95				1.421-1.427	0.873-0.883						
	流通		1-octen-3-yl acetate		>96											
	流通		1-octen-3-yl acetate		>95											
	流通		1-octen-3-yl acetate			95.0			1.421-1.427	0.873-0.883	1					
	流通		1-octen-3-yl acetate						1.423-1.427	0.857-0.885	1					
	流通		1-octen-3-yl acetate													
	再調査		1-octen-3-yl acetate		96											
	再調査		1-octen-3-yl acetate		98				1.422-1.428	0.876-0.882	1					
	再調査		1-octen-3-yl acetate													
	再調査		1-octen-3-yl acetate		96				1.421-1.427	0.873-0.883			1			
1128	JFFMA	2037	trans-2-octenol	4	97				1.441-1.449	0.839-0.846				2	1,4	1
	JECFA		(E)-2-Octen-1-ol		96				1.445-1.452	0.847-0.853	1.0			NMR		
	流通		trans-2-octenol		97.0				1.442-1.448	0.842-0.848	1.0					
	流通		trans-2-octenol		97				1.442-1.448	0.842-0.848	1					
	流通		trans-2-octenol		>97				1.441-1.449	0.839-0.846(25C)						
	流通		trans-2-octenol													
	流通		trans-2-octenol													
	再調査		trans-2-octenol		97				1.441-1.449	0.839-0.846						
	再調査		trans-2-octenol		98				1.441-1.449	0.839-0.846						
1130	JFFMA	1590	methyl 2-methyl-3-furyl disulfide	2	97				1.554-1.566	1.159-1.180				1	4	1
	JECFA		methyl 2-methyl-3-furyl disulfide		97				1.558-1.563	1.203-1.208				IR NMR		
	流通		methyl 2-methyl-3-furyl disulfide		97				1.554-1.561							
	流通		methyl 2-methyl-3-furyl disulfide		97				1.5540-1.5610	1.1600-1.1600						
	流通		methyl 2-methyl-3-furyl disulfide		>97											
	流通		methyl 2-methyl-3-furyl disulfide													
	流通		methyl 2-methyl-3-furyl disulfide						1.558-1.563							
	再調査		methyl 2-methyl-3-furyl disulfide		98				1.556-1.566	1.159-1.169						
	再調査		methyl 2-methyl-3-furyl disulfide		97											
	再調査		methyl 2-methyl-3-furyl disulfide		97				1.554-1.561							
	再調査		methyl 2-methyl-3-furyl disulfide		97.00				1.554-1.561							
	再調査		methyl 2-methyl-3-furyl disulfide		98.00				1.556-1.566	1.161-1.171			10			
	再調査		methyl 2-methyl-3-furyl disulfide													
	再調査		methyl 2-methyl-3-furyl disulfide		97				1.554-1.561	1.16-1.18						
	再調査		methyl 2-methyl-3-furyl disulfide		97				1.554-1.565				10			
	再調査		methyl 2-methyl-3-furyl disulfide		98				1.427-1.433	0.928-0.948						
1131	JFFMA	427	4-methylphenyl isobutyrate	1	98				1.484-1.490	0.993-0.999	1			1,2,3,5,6	4,5	3,6
	JECFA		p-Tolyl isobutyrate		95				1.484-1.490	0.990-0.997	1.0			IR		
	FCC		p-Tolyl Isobutyrate		95	GC(M-1b)			1.485-1.489	0.990-0.996	1.0			IR		
	流通		4-methylphenyl isobutyrate		98.0				1.484-1.490	0.995-1.000	1					
	流通		4-methylphenyl isobutyrate		98.0				1.484-1.490	0.995-1.000	1					
	流通		4-methylphenyl isobutyrate		>95											
	流通		4-methylphenyl isobutyrate													
	再調査		4-methylphenyl isobutyrate		98				1.485-1.489	0.993-0.999	1					

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1133	JFFMA	1422	isopropyl octanoate	1	98				1.414-1.420	0.853-0.859	1			3	4	3,6
	流通		isopropyl octanoate		>95											
	流通		isopropyl octanoate			98.0			1.415-1.420	0.853-0.858	1					
	流通		isopropyl octanoate			98.0			1.415-1.420	0.853-0.858	1					
	流通		isopropyl octanoate			98			1.415-1.420	0.853-0.858	1					
	流通		isopropyl octanoate													
	流通		isopropyl octanoate								1					
	流通		isopropyl octanoate													
	再調査		isopropyl octanoate		98				1.414-1.42	0.853-0.859	1					
	再調査		isopropyl octanoate		98	98			1.415-1.42	0.853-0.858	1					
1134	JFFMA	1576	methoxypyrazine	2	99				1.507-1.512	1.110-1.150				1,2,3,5,6	4,5	3,6
	JECFA		Methoxypyrazine		99				1.492-1.510	1.109-1.140				IR		
	FCC		2-Methoxypyrazine		99	GC(M-1b)			1.508-1.511	1.110-1.140 (20°)				IR		
	流通		methoxypyrazine		99				1.509-1.510	1.130-1.150						
	流通		methoxypyrazine		97				1.505-1.515	1.105-1.115						
	流通		methoxypyrazine		95.0					1.107-1.113						
	流通		methoxypyrazine		95.0					1.107-1.113						
	流通		methoxypyrazine		>99					1.110-1.140						
	流通		methoxypyrazine		>98											
	流通		methoxypyrazine		99				1.508-1.511	1.110-1.140						
	再調査		methoxypyrazine		99				1.508-1.511	1.11-1.14						
	再調査		methoxypyrazine						1.5085-1.5095	1.13-1.15						
	再調査		methoxypyrazine		0											
	再調査		methoxypyrazine		99				1.508-1.51	1.13-1.15						
	再調査		methoxypyrazine		99				1.508-1.511	1.11-1.14						
	再調査		methoxypyrazine		95					1.107-1.113						
1135	JFFMA	1321	isoborneol	12,20	90		MP	208-214					10	1,2,3,5,6	4,5	3,6
	JECFA		Isoborneol		92		MP	212-214						IR		
	FCC		Isoborneol				MP	212-214						IR		
	流通		isoborneol		94			208-214								
	流通		isoborneol		90											
	流通		isoborneol		>90			>200								
	流通		isoborneol													
	流通		isoborneol					200								
	流通		isoborneol													
	再調査		isoborneol		90											
	再調査		isoborneol		94.00		MP	208.0-214.0								
	再調査		isoborneol		90		MP	200-					1			

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1136	JFFMA	878	ethyl ethanethioate	1	95				1.440-1.461	0.970-0.985	1			3,6	3,4,5	1,6
	JECFA		ethyl thioacetate		98				1.456-1.468	0.979 at 20° C				NMR		
	流通		ethyl ethanethioate		98.00				1.456-1.460							
	流通		ethyl ethanethioate		95.5				1.455-1.461							
	流通		ethyl ethanethioate		95.0				1.457-1.460(23)	0.975-0.983(26)						
	流通		ethyl ethanethioate		95				1.455-1.461							
	流通		ethyl ethanethioate		>95											
	流通		ethyl ethanethioate													
	流通		ethyl ethanethioate													
	再調査		ethyl ethanethioate		95				1.455-1.461							
	再調査		ethyl ethanethioate		96				1.44-1.46							
	再調査		ethyl ethanethioate		95.00											
	再調査		ethyl ethanethioate		95				1.448-1.454	1.047-1.053						
	再調査		ethyl ethanethioate		95				1.455-1.461							
	再調査		ethyl ethanethioate		98				1.4555-1.4595	0.970-0.985			10			
	再調査		ethyl ethanethioate		95				1.455-1.461	0.979--						
1137	JFFMA	3070	2-buten-4-olide	3	98				1.465-1.475	1.197-1.212	3				4,5	6
	流通		2-buten-4-olide		98											
	再調査		2-buten-4-olide		98				1.465-1.475	1.197-1.212	3					
1138	JFFMA	251	borneol	12.20	95		MP	200-210					10	1,2,3,5,6	4,5	
	JECFA		Borneol		97		MP	202						IR		
	FCC		Borneol		97	GC(M-1b)	MP	202						IR		
	流通		borneol		95			200-208								
	再調査		dl-borneol													
	再調査		dl-borneol													
	再調査		dl-borneol													
	再調査		dl-borneol		95											
	再調査		dl-borneol		95		MP	200-208								
	再調査		dl-borneol		90		MP	200-210								
	再調査		dl-borneol		95.00		MP	205.0-210.0					5			
	再調査		dl-borneol				MP	200-208								
	再調査		dl-borneol													
	再調査		dl-borneol													
	再調査		dl-borneol		95											
	再調査		dl-borneol													
	再調査		dl-borneol		95		MP	200-208					1			
	再調査		dl-borneol													
	再調査		dl-borneol				MP	200-208								
	再調査		dl-borneol		96		MP	201-208								
	再調査		dl-borneol			95	MP	205-210					10			
	再調査		dl-borneol		70		MP	197-203								
	再調査		dl-borneol		95		MP	200-208								

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1139	JFFMA	430	crotonic acid	12,20		98	MP	70-74					10	3,5	3,4,5	1,3
	JECFA		(E)-2-Butenoic acid		98		MP	71-73						NMR		
	流通		crotonic acid		99.0											
	流通		crotonic acid			98.0		68-75								
	流通		crotonic acid			98.0		68-75								
	流通		crotonic acid													
	再調査		crotonic acid													
	再調査		crotonic acid			98	MP	70-74								
	再調査		crotonic acid		99		MP	70-74								
1140	JFFMA	1581	methyl 2-(methylthio)butyrate	1	98				1.454-1.461	1.025-1.034	1				1,4	
	JECFA		S-methyl 2-methylbutanethioate		99				1.456-1.462	1.028-1.035				MS		
	流通		methyl 2-(methylthio)butyrate		99.0				1.457-1.463	0.944-0.952						
	流通		methyl 2-(methylthio)butyrate		97.5				1.459-1.463							
	流通		methyl 2-(methylthio)butyrate		>98				1.461	1.028						
	再調査		methyl 2-(methylthio)butyrate		98											
	再調査		methyl 2-(methylthio)butyrate		98											
	再調査		methyl 2-(methylthio)butyrate		98				1.454-1.461	1.025-1.034						
1142	JFFMA	1977	2-nonenol	4	97				1.441-1.451	0.840-0.850				5	4,5	
	流通		2-nonenol													
	流通		2-nonenol													
	再調査		2-nonenol		98				1.441-1.451	0.84-0.85						
	再調査		2-nonenol		97				1.444-1.45	0.84-0.85	1					
1144	JFFMA	1424	isopropyl phenylacetate	1	98				1.485-1.491	0.998-1.004	1			5	4,5	1
	JECFA		isopropyl phenylacetate		97				1.483-1.491	1.006-1.012 (20°)	1.0			NMR		
	流通		isopropyl phenylacetate		98.0	98.0			1.485-1.490	0.998-1.003	1					
	流通		isopropyl phenylacetate		98.0	98.0			1.485-1.490	0.998-1.003	1					
	流通		isopropyl phenylacetate		>95											
	再調査		isopropyl phenylacetate		98				1.485-1.491	0.998-1.004	1					
	再調査		isopropyl phenylacetate													
1146	JFFMA	2141	1-phenyl-1,2-propanedione	2	96				1.527-1.537	1.095-1.107				1,3,5,6	3,4,5	3,6
	JECFA		Phenyl-1,2-propanedione		97				1.526-1.536	1.096-1.116				IR		
	流通		1-phenyl-1,2-propanedione		98				1.529-1.535							
	流通		1-phenyl-1,2-propanedione													
	再調査		1-phenyl-1,2-propanedione		98				1.53-1.534							
	再調査		1-phenyl-1,2-propanedione		97				1.53-1.534	1.095-1.105						
	再調査		1-phenyl-1,2-propanedione		98.00				1.529-1.535							
	再調査		1-phenyl-1,2-propanedione													
	再調査		1-phenyl-1,2-propanedione		98				1.53-1.534							
	再調査		1-phenyl-1,2-propanedione		96				1.531-1.535	1.1-1.107	5					

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比 重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1151	JFFMA	67	2-acetyl-3,5(3,6)-dimethylpyrazine	2	98				1.510-1.520	1.070-1.080				1		6
	JECFA		Acetyl-3,(5 or 6)-dimethylpyrazine		97	sum of isomers			1.510-1.520	1.070-1.075				IR		
	流通		2-acetyl-3,5(3,6)-dimethylpyrazine		98.00				1.515-1.519							
	流通		2-acetyl-3,5(3,6)-dimethylpyrazine		98					1.070-1.080						
	流通		2-acetyl-3,5(3,6)-dimethylpyrazine													
	流通		2-acetyl-3,5(3,6)-dimethylpyrazine													
	再調査		2-acetyl-3,5(6)-dimethylpyrazine													
	再調査		2-acetyl-3,5(6)-dimethylpyrazine		95											
	再調査		2-acetyl-3,5(6)-dimethylpyrazine		mix				1.514-1.519	1.071-1.076			10			
	再調査		2-acetyl-3,5(6)-dimethylpyrazine		99				1.51-1.52							
	再調査		2-acetyl-3,5(6)-dimethylpyrazine		98				1.510-1.520	1.070-1.080						
	再調査		2-acetyl-3,5(6)-dimethylpyrazine		98				1.51-1.52	1.07-1.08						
1152	JFFMA	472	cyclopentanone	2	98				1.434-1.440	0.948-0.958				1,3,5,6	1,4,5	1,3,6
	JECFA		cyclopentanone		99				1.432-1.438	0.950-0.960				MS IR NMR		
	流通		cyclopentanone		99					0.95						
	流通		cyclopentanone		98.0											
	流通		cyclopentanone		98				1.434-1.440	0.948-0.958						
	流通		cyclopentanone													
	再調査		cyclopentanone													
1153	JFFMA	2231	propyl lactate	1	98				1.414-1.420	1.003-1.009	1			3	4	3
	流通		propyl lactate		99											
	流通		propyl lactate		>95											
	流通		propyl lactate			98.0			1.415-1.420	1.002-1.007	1					
	流通		propyl lactate			98.0			1.415-1.420	1.002-1.007	1					
	流通		propyl lactate			98.0			1.415-1.420	1.002-1.007	1					
	流通		propyl lactate													
	流通		propyl lactate													
	再調査		propyl lactate		98				1.414-1.42	1.003-1.009	1					
	再調査		propyl lactate		98				1.414-1.42	1.003-1.009	1					
	再調査		propyl lactate		98				1.414-1.42	1.003-1.009	1					
1154	JFFMA	1229	2-phenylpropanal	1	95				1.513-1.523	1.000-1.013	3			1,2,3,5	4,5	6
	JECFA		2-phenylpropionaldehyde		95				1.515-1.520	0.998-1.006	5.0			IR		
	FCC		2-Phenylpropionaldehyde		95	GC(M-1b)			1.515-1.520	0.998-1.006	5.0			IR		
	流通		2-phenylpropanal		97				1.516-1.522	1.007-1.013						
	流通		2-phenylpropanal			95.0			1.514-1.520	1.000-1.007	3					
	流通		2-phenylpropanal			95.0			1.514-1.520	1.000-1.007	3					
	流通		2-phenylpropanal			95.0			1.514-1.520	1.000-1.007	3					
	流通		2-phenylpropanal			95.0			1.514-1.520	1.000-1.007	3					
	流通		2-phenylpropanal													
	流通		2-phenylpropanal													
	再調査		2-phenylpropanal		95				1.514-1.52	1-1.007	3					
	再調査		2-phenylpropanal		97				1.516-1.522	1.007-1.013						
	再調査		2-phenylpropanal		98				1.515-1.522	1.001-1.013	3					
	再調査		2-phenylpropanal						1.514-1.519	1.002-1.01						

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1155	JFFMA	985	4-(2-furyl)-3-buten-2-one	12,20	98		MP	36-40					10	3,5	4,5	1
	JECFA		4-(2-Furyl)-3-buten-2-one		98		MP	37-40			1.0			NMR		
	流通		4-(2-furyl)-3-buten-2-one		>97.5			28-37.5								
	流通		4-(2-furyl)-3-buten-2-one													
	流通		4-(2-furyl)-3-buten-2-one													
	流通		4-(2-furyl)-3-buten-2-one													
	流通		4-(2-furyl)-3-buten-2-one													
	流通		4-(2-furyl)-3-buten-2-one													
	再調査		4-(2-furyl)-3-buten-2-one										10			
	再調査		4-(2-furyl)-3-buten-2-one		98		SP	36-40								
	再調査		4-(2-furyl)-3-buten-2-one		98(カタログデータ)											
	再調査		4-(2-furyl)-3-buten-2-one		95				1.409-1412							
1156	JFFMA	1283	alpha-irone	4	94				1.497-1.507	0.930-0.940				1	4	
	JECFA		alpha-irone		98				1.497-1.503	0.932-0.939		+22 at 60℃		IR		
	流通		alpha-irone		94				1.501-1.503	0.935-0.939						
	流通		alpha-irone		94				1.501-1.503	0.935-0.939						
	流通		alpha-irone		94											
	流通		alpha-irone		94											
	流通		alpha-irone		94				1.501-1.503	0.935-0.939	1					
	流通		alpha-irone		93.00				1.502-1.506	0.9360-0.9400						
	流通		alpha-irone		92				1.499-1.504	0.930-0.938						
	流通		alpha-irone		90	96			1.499-1.503	0.931-0.939						
	流通		alpha-irone		>95											
	流通		alpha-irone		>94											
	流通		alpha-irone													
	流通		alpha-irone													
	再調査		alpha-irone		94				1.0501-1.0503	0.935-0.939	1					
	再調査		alpha-irone													
	再調査		alpha-irone			94			1.501-1.503	0.935-0.939	1		10			
	再調査		alpha-irone		94											
	再調査		alpha-irone		94				1.501-1.503	0.935-0.939						
	再調査		alpha-irone			94			1.5-1.503	0.935-0.939	1					
	再調査		alpha-irone		98.00				1.499-1.505	0.933-0.939						
	再調査		alpha-irone		95	95			1.499-1.503	0.931-0.937						
	再調査		alpha-irone		95	98			1.499-1.503	0.933-0.939						
	再調査		alpha-irone		94				1.501-1.503	0.935-0.939	1		10			
	再調査		alpha-irone		94				1.501-1.503	0.935-0.939	0.5mg/g		10			
	再調査		alpha-irone		94				1.501-1.503	0.935-0.939	1		10			

使用量順位	規格先	H12-SEQ	表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度	重金属(μg/g)	確認試験*2 IR	MS	NMR
1158	JFFMA	2150	phenylacetaldehyde glyceryl acetal	1	95				1.527-1.537	1.155-1.165	1					1
	JECFA		phenylacetaldehyde glyceryl acetal		95				1.524-1.536	1.158-1.168	1.0					NMR
	流通		phenylacetaldehyde glyceryl acetal						1.528-1.536	1.157-1.165	1					
	流通		phenylacetaldehyde glyceryl acetal						1.527-1.535	1.154-1.164	1					
	流通		phenylacetaldehyde glyceryl acetal						1.527-1.535	1.154-1.164	1					
	流通		phenylacetaldehyde glyceryl acetal						1.532-1.537	1.1610-1.1650						
	再調査		phenylacetaldehyde glyceryl acetal						1.528-1.536	1.157-1.165	1					
	再調査		phenylacetaldehyde glyceryl acetal		95				1.53-1.536	1.157-1.163	1					
	再調査		phenylacetaldehyde glyceryl acetal													
	再調査		phenylacetaldehyde glyceryl acetal						1.528-1.536	1.157-1.165	1					

＊1 融点設定基準

固体化合物において、最終精製時は液体の為比重・屈折率の規格が存在するが、通常流通時には固体の為調査時に流通規格が得られなかったものについて、実測し規格設定した。

＊2 参照スペクトルデータベース番号

1) FAO/WHO合同食品添加物専門家委員会(Joint FAO/WHO Expert Committee on Food Additive;JECFA)
2) 米国食品化学物質規格集(Food Chemicals Codex 5th Edition; FCC)
3) 有機化合物のスペクトルデータベース SDBS(独立行政法人産業技術総合研究所)
4) Wiley's Registry of Mass spectral Database
5) NIST/EPA/NIH Mass Spectral Library
6) Sigma-Aldrich カタログ

資料－４－１

日本香料工業会　自主規格　一覧
(平成１７年度)

表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	比重(20℃)	屈折率(20℃)	酸価	旋光度又は比旋光度(°)	重金属*1(μg/g)	確認試験*2 IR	MS	NMR	使用量順位	H12-SEQ
acetaldehyde diethyl acetal	1	95				0.823-0.833	1.377-1.387	1			2,3,6	3,4,5	3,6	35	17
acetoin	2	95				0.997-1.014	1.414-1.424				1,2,3	3,4,5	3	30	40
2-acetylpyridine	2	95				1.078-1.088	1.515-1.525				3	3,4,5	1,3,6	172	79
allyl heptanoate	3	97				0.882-0.888	1.426-1.432	1			1,2,5	4,5	–	112	106
allyl octanoate	3	98				0.880-0.886	1.429-1.435	1			1	–	–	207	119
allyl phenoxyacetate	3	98				1.105-1.111	1.513-1.519	1			1,6	4,5	–	165	120
amyl acetate	1	98				0.875-0.881	1.400-1.406	1			–	4,5	–	116	141
amyl butyrate	1	98				0.866-0.872	1.409-1.415	1			1,	4,5	–	229	146
benzaldehyde propyleneglycol acetal	1	95				1.065-1.075	1.506-1.516	1			3	3,4	3	137	206
benzyl benzoate	1	98				1.118-1.124	1.566-1.572	1			1,2,3,5,6	3,5	3,6	97	216
benzyl butyrate	1	98				1.009-1.015	1.490-1.496	1			1,2,3,5,6	3,4,5	3,6	121	218
benzyl formate	1	95				1.086-1.096	1.506-1.516	5			1,2,3	3,4,5	3	154	224
benzyl lactate	1	96				1.121-1.131	1.508-1.518	2			–	4	–	71	230
benzyl octanoate	1	95				0.959-0.969	1.481-1.491	1			–	4,5	–	210	238
2-butoxyethanol	2	99				0.899-0.905	1.416-1.422				3,6	3,4,5	6	245	319
2-butoxyethyl acetate	1	98				0.938-0.944	1.411-1.417	1			–	4,5	–	194	320
butyl butyryllactate	1	95				0.971-0.981	1.417-1.427	2			1,2,5,6	5	–	57	280
butyl hexanoate	1	98				0.865-0.871	1.413-1.419	1			1	4,5	–	208	288
butyl isovalerate	1	98				0.858-0.864	1.406-1.412	1			1,2,3,6	3,4,5	3	170	292
butyl lactate	1	95				0.979-0.989	1.417-1.427	1			1	4,5	–	195	293
butyl 2-methylbutyrate	1	98				0.862-0.868	1.407-1.413	1			1,2	4,5	–	243	269
butyl propionate	1	98				0.875-0.881	1.398-1.404	1			1,3,5	3,5	3,6	70	308
gamma-butyrolactone	1	95				1.125-1.135	1.432-1.442	3			1,3,5,6	3,5	3,6	82	331
carveol	4	95				0.949-0.959	1.491-1.501				1,2	4,5	–	234	343
p-cymene	2	95				0.852-0.862	1.482-1.492				1,2	4,5	–	224	480
delta-decalactone	1	95				0.967-0.977	1.453-1.463	5			1,2,3	3,4,5	3,6	7	489
gamma-decalactone	1	95				0.950-0.960	1.443-1.453	3			1,2,3,6	3,4,5	3,6	38	490
diacetyl	2	95				0.980-0.990	1.390-1.400				1,2,3,6	3,4,5	3,6	49	533
diethyl adipate	1	98				1.005-1.011	1.425-1.431	1			3,6	3,4,5	3,6	174	545
diethyl malate	1	98				1.126-1.132	1.433-1.439	3			–	4	–	122	550
diethyl malonate	1	98				1.054-1.060	1.411-1.417	1			1,2,3,6	3,4,5	3,6	24	552
diethyl sebacate	1	98				0.962-0.968	1.434-1.440	1			1,2,3,5,6	3,5	3	103	554
diethyl succinate	1	98				1.040-1.046	1.417-1.423	1			1,2,3,6	3,4,5	3,6	130	555
2,5-dimethyl-3(2H)-furanon-4-yl acetate	1	95				1.162-1.172	1.472-1.482	特例除外			–	–	1	230	960
dimethyl sulfide	2	98				0.844-0.854	1.430-1.440				1,2,3,6	3,4,5	3,6	5	625
delta-dodecalactone	1	97				0.948-0.954	1.457-1.463	8			1,2,3	3	3,6	4	692
gamma-dodecalactone	1	96				0.932-0.942	1.447-1.457	3			1	5	6	77	693
ethyl anthranilate	1	96				1.116-1.126	1.560-1.570	1			1,2	4,5	–	235	816
ethyl benzoate	1	98				1.045-1.051	1.502-1.508	1			1,2,3,6	3,4,5	3,6	129	817
2-ethylbutyric acid	2	98				0.922-0.928	1.410-1.420				1,2,3,5,6	3,5	3,6	104	908
ethyl crotonate	3	98				0.917-0.923	1.422-1.428	2.0			2,3	3,4,5	3,6	187	826

表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	比重(20℃)	屈折率(20℃)	酸価	旋光度又は比旋光度(°)	重金属*1(μg/g)	確認試験*2 IR	MS	NMR	使用量順位	H12-SEQ
ethyl formate	1	95				0.917–0.927	1.355–1.365	特例除外			1,2,3,6	3,4,5	3,6	29	830
ethyl 3-hydroxybutyrate	1	98				1.011–1.017	1.418–1.424	1			3	1,3,4,5	3,6	189	781
ethyl 3-hydroxyhexanoate	1	95				0.971–0.981	1.423–1.433	1			–	4,5	–	240	782
ethyl isobutyrate	1	98				0.867–0.873	1.385–1.391	1			1,2,3,6	3,4,5	3,6	23	839
ethyl lactate	1	97				1.032–1.038	1.410–1.416	1			1,2,3	3,4,5	3	21	843
ethyl laurate	1	98				0.861–0.867	1.430–1.436	1			1,2,3,5	3,5	3	98	844
ethyl levulinate	1	98				1.012–1.018	1.419–1.425	1			1,2,3,6	3,4,5	3,6	25	845
ethyl levulinate propyleneglycol acetal	1	98				1.027–1.035	1.427–1.434	1			–	4,5	–	236	847
ethyl 2-methylbutyrate	1	95				0.864–0.874	1.392–1.402	2			1	4,5	6	16	766
ethyl 2-methylpentanoate	1	98				0.863–0.869	1.401–1.407	1			1,3	3	3	86	767
ethyl myristate	1	98				0.860–0.866	1.434–1.440	1			1,2,3,5,6	3,5	3,6	62	855
ethyl nonanoate	1	95				0.863–0.873	1.418–1.428	1			1,2,3,6	3,4,5	3,6	168	858
ethyl salicylate	1	98				1.129–1.135	1.519–1.525	1			1,2,3,6	3,4,5	3,6	41	875
ethyl valerate	1	98				0.873–0.879	1.397–1.403	1			3	3,4,5	3,6	124	889
eugenyl methyl ether	4	98				1.030–1.040	1.529–1.535				3	3,4,5	3,6	48	1831
furfural	1	95				1.155–1.165	1.520–1.530	3			2,3,5	3,5	3,6	61	961
furfuryl alcohol	2	97				1.129–1.139	1.480–1.490				2,3,6	3,4,5	3,6	44	968
gamma-heptalactone	1	96				0.995–1.005	1.437–1.447	3			1	4,5	–	135	1029
heptanoic acid	2	98				0.917–0.923	1.420–1.426				1,3,5,6	3,5	3,6	88	1037
2-heptanone	2	95				0.812–0.822	1.404–1.414				1,2,3	3,4,5	3,6	166	1627
heptyl acetate	1	98				0.868–0.874	1.411–1.417	1			1	4,5	–	237	1056
gamma-hexalactone	1	98				1.024–1.030	1.435–1.441	3			1	4,5	7	127	1086
hexanal	1	95				0.808–0.823	1.400–1.410	10			1,3,6	3,4,5	3	22	1087
hexanal propyleneglycol acetal	1	95				0.893–0.903	1.418–1.428	1			1	–	–	73	1097
hexanol	2	95				0.818–0.828	1.414–1.424				3,6	3,4,5	3,6	17	1102
hexyl acetate	1	98				0.871–0.877	1.407–1.413	1			1,2,3,6	3,4,5	3,6	6	1195
hexyl butyrate	1	98				0.864–0.870	1.414–1.420	1			1,2,3,6	3,4,5	3,6	155	1197
hexyl formate	1	95				0.878–0.888	1.402–1.412	1			–	4,5	–	201	1202
hexyl hexanoate	1	98				0.861–0.867	1.421–1.427	1			1,3,6	3,4,5	3,6	173	1204
hexyl 2-methylbutyrate	1	98				0.858–0.864	1.416–1.422	1			1	4,5	–	169	1192
hexyl octanoate	1	98				0.859–0.865	1.428–1.434	1			1,6	4,5	–	192	1213
hydroxycitronellol	2	97				0.929–0.935	1.456–1.462				1	4,5	–	180	1272
isoamyl hexanoate	1	98				0.859–0.865	1.417–1.423	1			1,2,3	3,4,5	3	167	1299
isoamyl isobutyrate	1	98				0.856–0.862	1.404–1.410	1			1,2,3,6	3,5	3	89	1300
isoamyl 2-methylbutyrate	1	97				0.857–0.863	1.411–1.417	1			1	4,5	–	239	1287
isobutyl acetate	1	97				0.870–0.876	1.388–1.394	1			1,2,3	3,4,5	3,6	20	1334
isobutyl isobutyrate	1	98				0.853–0.859	1.397–1.403	1			1,3	3,4,5	3,6	158	1348
isobutyl propionate	1	98				0.865–0.871	1.396–1.402	1			1,3	3,4,5	3,6	147	1362
2-isobutylthiazole	2	95				0.995–1.005	1.490–1.500				5	4,5	1	109	1375
isobutyric acid	2	98				0.947–0.953	1.391–1.397				1,2,3,6	3,4,5	3,6	37	1377
isopropyl acetate	1	98				0.870–0.876	1.374–1.380	1			1,2,3,6	3,4,5	3,6	133	1401
isopropyl myristate	1	96				0.850–0.860	1.429–1.439	1			–	4,5	–	107	1420

表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	比重(20℃)	屈折率(20℃)	酸価	旋光度又は比旋光度(°)	重金属*1(μg/g)	確認試験*2 IR	MS	NMR	使用量順位	H12-SEQ
isovaleric acid	2	98				0.925-0.931	1.400-1.406				1,2,3,5,6	3,5	3,6	90	1451
linalyl anthranilate	3	98				1.043-1.058	1.545-1.552	2			-	4,5	1	223	1476
maltol isobutyrate	1	97				1.150-1.156	1.493-1.499	5			2	4	-	50	1493
menthofuran	2	95				0.964-0.974	1.479-1.489				1,5	4	3	136	1510
methyl acetate	1	98				0.925-0.940	1359-1.365	1			1,2,3,5,6	3,5	3,6	64	1624
methyl benzoate	1	98				1.087-1.093	1.513-1.519	1			1,2,3	3,4,5	3,6	157	1631
2-methylbutyl acetate	1	97				0.873-0.879	1.398-1.404	1			1,3	3,4,5	3	15	1808
methyl butyrate	1	98				0.896-0.902	1.384-1.390	1			1,2,3,6	3,4,5	3,6	36	1636
methyl dihydrojasmonate	1	96				0.998-1.008	1.454-1.464	2			1,3,5	3,4,5	3	139	1644
5-methylfurfural	1	97				1.105-1.111	1.524-1.534	5			3,5,6	3,5	3,6	94	1834
6-methyl-5-hepten-2-one	4	95				0.847-0.857	1.435-1.445				2,3,5,6	3,5	1,3,6	81	1841
methyl hexanoate	1	98				0.883-0.889	1.403-1.409	1			2,3,5,6	3,5	3,6	66	1658
methyl isobutyrate	1	98				0.888-0.894	1.381-1.387	1			1,2	4,5	-	198	1664
methyl isovalerate	1	98				0.878-0.884	1.390-1.396	1			1,2	4,5	-	200	1668
methyl 2-methylbutyrate	1	98				0.883-0.889	1.392-1.398	1			1,6	5	6	56	1591
methyl 3-(methylthio)propionate	1	98				1.073-1.079	1.463-1.469	1			1,3	3,4,5	3,6	156	1598
methyl phenylacetate	1	98				1.066-1.072	1.504-1.510	1			2,3,6	3,4,5	3,6	145	1702
2-methyl-1-phenyl-2-propyl butyrate	1	98				0.972-0.978	1.483-1.489	1			2	-	-	100	613
methyl propionate	1	98				0.913-0.919	1.375-1.381	1			1,3	3,4,5	3,6	179	1706
methyl 4-tert-butylphenylacetate	1	95				0.994-1.004	1.495-1.505	1			6	-	1,6	101	1712
4-methyl-5-thiazoleethanol	2	97				1.195-1.216	1.540-1.551				2,3,6	3,4,5	1,3,6	26	2305
4-methyl-5-thiazoleethanol acetate	1	98				1.166-1.172	1.506-1.512	1			-	4,5	1,6	33	2306
delta-nonalactone	1	97				0.985-0.991	1.454-1.460	5			1,2,3	3,4,5	-	176	1952
2-nonanone	2	97				0.821-0.827	1.418-1.424				1,2,3	3,4,5	3	159	1657
delta-octalactone	1	97				0.998-1.008	1.451-1.459	5			1,2	4,5	-	242	2010
gamma-octalactone	1	95				0.978-0.988	1.439-1.449	3			1,3,6	3,4	3,6	108	2011
octanoic acid	2	98				0.908-0.914	1.425-1.431				1,3,6	3,4,5	3,6	45	2019
3-octanol	2	95				0.821-0.831	1.422-1.432				1	4,5	-	209	2021
octanol	2	98				0.823-0.829	1.426-1.432				1,2,3,5,6	3,5	3,6	91	2022
1-octen-3-ol	4	97				0.834-0.842	1.434-1.440				2	4,5	1	217	2024
octyl acetate	1	98				0.867-0.873	1.417-1.423	1			1,2,3	3,4,5	6	163	2046
octyl isobutyrate	1	98				0.855-0.861	1.419-1.425	1			1	4,5	6	171	2056
2-pentanone	2	95				0.802-0.812	1.386-1.396				1,2,3	3,4,5	3,6	177	1709
phenethyl alcohol	2	98				1.019-1.025	1.529-1.535				1,2,3,6	3,4,5	3,6	46	2103
phenethyl isobutyrate	1	98				0.988-0.994	1.484-1.490	1			1,2	4,5	-	221	2113
2-phenoxyethanol	2	98				1.107-1.113	1.533-1.539				3,6	3,4,5	3,6	115	2129
propyl acetate	1	95				0.884-0.894	1.380-1.390	1			1,2,3	3,4,5	3,6	14	2213
propyl butyrate	1	98				0.872-0.878	1.397-1.403	1			1,3,5	3,5	3,6	105	2217
propyl 2-methylbutyrate	1	98				0.864-0.870	1.401-1.407	1			-	4	-	95	2212
propyl propionate	1	98				0.880-0.886	1.390-1.396	1			1,3,5,6	3,4,5	3,6	140	2239
styrallyl alcohol	2	97				1.011-1.017	1.524-1.530				1,2,3	3,4,5	3,6	181	2297

表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分	融点又は凝固点(℃)	比重(20℃)	屈折率(20℃)	酸価	旋光度又は比旋光度(°)	重金属*1(μg/g)	確認試験*2 IR	確認試験*2 MS	確認試験*2 NMR	使用量順位	H12-SEQ
styralyl acetate	1	97				1.025-1.031	1.492-1.498	2			-	4,5	6	39	2298
delta-tetradecalactone	1	98				0.931-0.941	1.459-1.465	5			1,3	3	-	84	2343
delta-undecalactone	1	96				0.956-0.966	1.454-1.464	5			1,3	3,4,5	3,6	42	2451
2-undecanone	2	95				0.822-0.832	1.426-1.436				1,2,3	3,4,5	6	162	1689
valeric acid	2	98				0.937-0.943	1.405-1.411				3,6	3,4,5	3,6	119	2483

＊1 重金属規格設定基準

固体化合物において、最終精製法が蒸留法など重金属混入の懸念がない場合を除き、重金属の項目を規格項目として採用することとした。
重金属規格設定を必要とする化合物については公定書の設定値である10μg／gを原則とする。

＊2 参照スペクトルデータベース番号

1) FAO/WHO合同食品添加物専門家委員会(Joint FAO/WHO Expert Committee on Food Additive;JECFA)
2) 米国食品化学物質規格集(Food Chemicals Codex 5th Edition; FCC)
3) 有機化合物のスペクトルデータベース SDBS(独立行政法人産業技術総合研究所)
4) Wiley's Registry of Mass spectral Database
5) NIST/EPA/NIH Mass Spectral Library
6) Sigma-Aldrich カタログ

資料－４－２

日本香料工業会　自主規格　一覧
(平成１８年度)

表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分*1	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度(°)	重金属*2(μg/g)	確認試験*3 IR	MS	NMR	使用量順位	H12-SEQ
acetaldehyde dihexyl acetal	1	95				1.418-1.428	0.834-0.844	1			6	–	6	438	19
acetaldehyde ethyl cis-3-hexenyl acetal	3	98				1.419-1.430	0.848-0.856	2			1,3	4	3	376	25
acetanisole	10,18	97		MP	36-42					10	1,2,3,5,6	3,5	3,6	249	38
2-acetylfuran	10,18	95		SP	27-34					10	3,5	3,4,5	3	211	77
acetylpyrazine	10,18	99		MP	75-80					10	1,5,6	4,5	6	123	78
2-acetylpyrrole	10,18	97		MP	87-93					10	3,6	3,4,5	3,6	337	82
allyl cinnamate	3	97				1.564-1.570	1.053-1.059	1			1,3,6	3	3,6	286	99
amyl hexanoate	1	98				1.418-1.424	0.862-0.868	1			1,5	4,5	–	486	152
amyl isobutyrate	1	98				1.405-1.411	0.859-0.865	1			–	4,5	–	528	153
amyl isovalerate	1	98				1.411-1.417	0.857-0.863	1			1,3	3,5	3,6	261	156
amyl valerate	1	98				1.413-1.419	0.863-0.869	1			1,2,3,6	3	3	413	166
trans-anethole	4	98				1.557-1.563	0.981-0.991				1,2,3,6	3,4,5	3,6	13	175
anisaldehyde propyleneglycol acetal	1	95				1.516-1.526	1.113-1.123	1			–	4,5	–	529	184
anisyl acetate	1	97				1.511-1.517	1.107-1.113	1			1,3	3,4,5	3	324	187
anisyl alcohol	10,18	97		SP	23-27					10	1,2,3,6	3,4,5	3,6	132	189
benzyl cinnamate	11,19	98		SP	32-36			1		10	1,2,3,6	3,4	3,6	551	219
benzyl isobutyrate	1	97				1.488-1.492	1.004-1.010	1			1,2,6	–	–	407	227
benzyl isoeugenyl ether	12,20	95		MP	55-63					10	3	3,4	1	433	1384
benzyl isovalerate	1	98				1.482-1.490	0.987-0.993	1			–	4,5	–	414	229
benzyl phenylacetate	1	98				1.553-1.559	1.098-1.104	1			1,2,3,5	3,5	3	102	239
bornyl acetate	3	95				1.460-1.470	0.982-0.992	1			1,2	5	3	276	252
butanal diethyl acetal	1	98				1.394-1.400	0.827-0.833	1			–	4,5	–	542	259
3-butenyl isothiocyanate	4	97				1.520-1.526	0.990-0.996				–	4,5	–	153	264
butyl 10-undecenoate	3	98				1.439-1.445	0.871-0.877	1			1,5	5	–	505	315
butyl formate	1	95				1.385-1.395	0.889-0.899	1			1,3,5,6	3,4,5	3,6	357	286
butyl isobutyrate	1	97				1.400-1.406	0.861-0.867	1			1,2,3,5	3,4,5	3	469	289
butyl octanoate	1	98				1.422-1.428	0.862-0.868	1			3,5	4,5	3	519	302
butyl valerate	1	98				1.408-1.414	0.866-0.872	1			1,5,6	3,5	6	434	316
d-camphor	14,22	96		MP	174-182				+41 to +45	10	2,3,6	3,4,5	3,6	380	337
l-carveol	8	95				1.491-1.501	0.949-0.959		-135 to -118		–	4	–	509	342
carvyl acetate	3	95				1.470-1.480	0.969-0.980	1	-128 to -90		1,3,6	3,4	3,6	412	350
cinnamyl isobutyrate	3	96				1.519-1.529	1.005-1.015	3			1,2	4	–	300	386
cinnamyl isovalerate	3	95				1.514-1.524	0.989-0.999	1			1,3,5,6	3,5	3,6	459	387
cuminaldehyde	1	95				1.527-1.534	0.974-0.984	5			1,2,3	3,4,5	3,6	297	431
cyclotene	12,20	95		MP	104-108					20	3	3,4,5	3	31	475
beta-damascenone	4	98				1.508-1.514	0.944-0.952				1	4	–	346	482
damascenone	4	98				1.508-1.514	0.944-0.952				1	4	–	307	482
beta-damascone	4	90				1.493-1.503	0.933-0.943				1,3	3	3	423	484
2,4-decadienal	3	90				1.513-1.523	0.866-0.876	10			1,2	4	–	513	486
epsilon-decalactone	1	98				1.458-1.465	0.976-0.982	3			1	4	–	548	719
decanal diethyl acetal	1	95				1.419-1.429	0.834-0.844	1			–	4	–	484	492
decanal dimethyl acetal	1	95				1.420-1.430	0.845-0.855	1			1	4	–	356	493
decanoic acid	10,18		98	SP	29-35					10	1,3,6	3,4,5	3,6	32	495
2-decanone	2	95				1.421-1.431	0.821-0.831	1			–	4,5	–	437	1694
2-decen-5-olide	3	93				1.465-1.480	0.981-0.991	10			–	4,5	–	215	1495
9-decenoic acid	4	94				1.442-1.452	0.912-0.922				3	3,4	3	374	511
decyl acetate	1	95				1.423-1.433	0.861-0.871	1			1	4	–	480	519
diethyl tartarate	1	97				1.443-1.449	1.203-1.210	3			3,5,6	3,5	3,6	252	557
difurfuryl disulfide	2	95				1.582-1.600	1.230-1.250				3,6	3,4	3,6	128	559

表示名	判断樹番号	含量(%)(GC)	含量(%)(GC以外・成分情報)	融点区分*1	融点又は凝固点(℃)	屈折率(20℃)	比重(20℃)	酸価	旋光度又は比旋光度(°)	重金属*2(μg/g)	確認試験*3 IR	MS	NMR	使用量順位	H12-SEQ
dihydrocarvyl acetate	3	95				1.456-1.466	0.944-0.954	1			1,3,6	3,4,5	6	464	570
diisopropyl adipate	1	98				1.423-1.427	0.963-0.968	1			3	3,4,5	3	298	5000
3,4-dimethoxybenzaldehyde	9,17	95		MP	40-48			5		10	1,3,6	3,4,5	3,6	325	2491
2,6-dimethoxyphenol	10,18	95		MP	52-56					10	1,3,6	3,4	3,6	430	607
dimethyl succinate	1	98				1.418-1.422	1.119-1.125	1			1,3,5,6	3,5	3,6	262	624
2,5-dimethyl-4-hydroxy-3(2H)-furanone	12,20	98		MP	73-83					20	2,6	4,5	1,6	34	959
diphenyl ether	10,18	98		MP	26-30					10	2,3,6	4,5	1,6	492	680
dipropyl adipate	1	98				1.429-1.433	0.979-0.983	1			3,5	3,4,5	-	364	681
dodecanol	10,18	97		SP	23-27					10	1,2,3,5,6	3,5	3,6	270	700
dodecyl acetate	1	97				1.430-1.436	0.862-0.868	1			1,3,5,6	3,5	3,6	292	1458
dodecyl butyrate	1	98				1.433-1.438	0.857-0.862	1			5	5	-	525	708
estragole	4	97				1.518-1.524	0.963-0.971				2,3,5,6	3,4,5	3,6	321	721
2-ethoxy-5-(1-propenyl)phenol	12,20	97		MP	84-88					10	1,2,6	4	6	271	2497
ethyl 3-(methylthio)propionate	1	98				1.457-1.463	1.035-1.041	1			-	4	-	344	773
ethyl beta-methyl-beta-phenylglycidate	1	95				1.502-1.513	1.087-1.098	2			1,2,5,6	-	-	52	853
ethyl beta-naphthyl ether	10,18	98		MP	33-38					10	2,3,5	3,4,5	1,3	382	1915
ethyl beta-phenylglycidate	1	97				1.515-1.521	1.122-1.129	1			1,2,5,6	5	6	58	820
ethyl maltol	10,18	98		MP	89-93					10	3,6	3	1,3,6	2	850
ethyl palmitate	9,17	97		MP	23-28			1		10	1,3,5,6	3,5	3	74	862
ethyl stearate	9,17	97		MP	30-39			1		10	3,6	3,4,5	3	232	877
ethyl trans-2-decenoate	3	95				1.440-1.450	0.880-0.890	1			-	4,5	-	222	881
ethyl trans-2-hexenoate	3	98				1.430-1.438	0.898-0.905	1			1,5	4,5	-	351	882
5-ethyl-4-hydroxy-2-methyl-3(2H)-furanone	4	95				1.507-1.517	1.134-1.146				-	-	1	99	899
2-ethylhexanoic acid	2	97				1.422-1.428	0.904-0.912				3,6	3,4,5	3,6	418	919
ethylvanillin propyleneglycol acetal	1	90				1.526-1.536	1.163-1.173	特例除外			-	4	-	213	938
eugenyl acetate	11,19	98				1.514-1.522	1.080-1.086	1			1,2,3	3,4,5	3	350	940
farnesol	4	96				1.487-1.492	0.883-0.893				1,2,3,5,6	4,5	3,6	507	948
alpha-fenchyl alcohol	10,18	95		MP	35-45					10	1,2,3	3,4,5	3	530	954
fenchyl alcohol	10,18	95		MP	35-45					10	1,2,3	3,4,5	3	393	954
2-furanmethanethiol	2	95				1.526-1.536	1.120-1.135				3,6	3,4,5	1,3,6	199	976
furfuryl acetate	1	97				1.459-1.465	1.117-1.123	1			1,3,5,6	3,5	3,6	268	967
guaiacol	10,18	95		MP	26-32	1.539-1.549	1.127-1.137				1,3,6	3,4,5	3,6	329	1017
heptanal dimethyl acetal	1	95				1.405-1.415	0.845-0.855	1			1	4	-	417	1034
heptanol	2	97				1.421-1.427	0.820-0.826	1			1,2,5,6	5	6	409	1041
hexanal diethyl acetal	1	95				1.404-1.414	0.829-0.839	1			-	4,5	-	59	1090
2-hexanone	2	96				1.396-1.406	0.808-0.818				3,5,6	3,4,5	3	375	297
trans-2-hexenal	3	95				1.440-1.451	0.840-0.854	10			3,6	3,4,5	1,6	12	1108
trans-2-hexenoic acid	12,20		98	MP	32-38					10	3,6	3,5	1,3,6	67	1121
cis-3-hexenol	4	95				1.436-1.446	0.845-0.855				2,3,6	3,4,5	3,6	8	1125
trans-2-hexenol	4	95				1.433-1.443	0.839-0.849				3,6	3,4,5	3,6	43	1127
trans-3-hexenol	4	98				1.437-1.442	0.830-0.860				3,5,6	3,4,5	3,5,6	345	1128
cis-3-hexenyl 2-methylbutyrate	3	95				1.429-1.439	0.876-0.886	1			-	4,5	-	410	1133
cis-3-hexenyl acetate	4	95				1.421-1.431	0.897-0.907	2			1,2,3,6	3,5	3	69	1141
trans-2-hexenyl acetate	3	95				1.422-1.432	0.893-0.903	1			1,2,3,5	3,5	3,6	51	1142
cis-3-hexenyl anthranilate	3	96				1.546-1.556	1.052-1.062	2			1	4	1	498	1148
cis-3-hexenyl benzoate	3	95				1.503-1.514	0.998-1.008	2			1,3,6	3,4	3	508	1149
cis-3-hexenyl butyrate	3	95				1.425-1.435	0.883-0.893	2			1,2,3,6	3,4	3,6	203	1151
trans-2-hexenyl butyrate	3	95				1.428-1.435	0.881-0.888	1			1,2	-	-	451	1152
cis-3-hexenyl formate	3	94				1.422-1.432	0.910-0.920	2			1	-	-	456	1159