



DRAFT AMENDMENT ISO 5496:1992/DAmD 1

ISO/TC 34/SC 12

Secretariat: **AFNOR**

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Sensory analysis — Methodology — Initiation and training of assessors in the detection and recognition of odours

AMENDMENT 1

Analyse sensorielle — Méthodologie — Initiation et entraînement des sujets à la détection et à la reconnaissance des odeurs

AMENDEMENT 1

ICS 03.100.30; 67.240

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Amendment 1 to ISO 5496:1992 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 12, *Sensory analysis*.

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Sensory analysis — Methodology — Initiation and training of assessors in the detection and recognition of odours

Page 8

Table A.2

Replace Table A.2 by the following :

Table A.2 — Examples of odoriferous substances that can be used for training in the detection and recognition of odours

No.	Chemical name or abbreviation ^a	Molecular formula ^b	Descriptor of odour or association	Dilution No. from Table A.1 to be used ^c			
				Direct Method		Retro-nasal method	
				Flasks	Smelling strips	Gaseous phase	Ingestion
1	<i>d</i> -Limonene	C ₁₀ H ₁₆	lemon, orange zest	6	SS	7	5
2	Citral (Geranial + Neral)	C ₁₀ H ₁₆ O	fresh, lemon	5	SS	6	4
3	Geraniol	C ₁₀ H ₁₈ O	rose	5	SS	6	4
4	<i>cis</i> -3-Hexen-1-ol	C ₆ H ₁₂ O	crushed grass	6	SS	7	5
5	Benzaldehyde	C ₇ H ₆ O	bitter almond, marzipan	6	SS	7	5
6	Butyric acid	C ₄ H ₈ O ₂	rancid butter, cheesy (e.g. over-aged Parmesan), sour milk	5	SS	6	4
7	Ethyl butanoate	C ₆ H ₁₂ O ₂	very ripe banana, strawberry	4	SS	5	3
8	Benzyl acetate	C ₉ H ₁₀ O ₂	floral, lily of the valley, jasmin, lilac	5	SS	8	6
9	γ -Undecalactone	C ₁₁ H ₂₀ O ₂	fruity, peach	6	SS	7	5
10	2-Phenylethanol	C ₈ H ₁₀ O	floral, rose	8	SS	8	7
11	Methyl anthranilate	C ₈ H ₉ O ₂	orange blossom	4	SS	5	3
12	Ethyl phenyl acetate	C ₁₀ H ₁₂ O ₂	apricot, honey	4	SS	5	3
13	Anethole	C ₁₀ H ₁₂ O	aniseed-flavoured beverages	3	SS	4	2
14	Cinnamaldehyde	C ₉ H ₈ O	cinnamon	6	SS	7	5
15	Vanillin	C ₈ H ₈ O ₃	vanilla	5	SS	6	4
16	<i>l</i> -Menthol	C ₁₀ H ₂₀ O	peppermint ^d	6	SS	8	6
17	Terpinyl acetate	C ₁₂ H ₂₀ O ₂	spicy, pine	4	SS	5	3

(To be continued)

Table A.2 —(end)

No.	Chemical name or abbreviation ^a	Molecular formula ^b	Descriptor of odour or association	Dilution No. from Table A.1 to be used ^c			
				Direct Method		Retro-nasal method	
				Flasks	Smelling strips	Gaseous phase	Ingestion
18	Thymol	C ₁₀ H ₁₄ O	spicy, fresh thyme	4	SS	5	3
19	Diacetyl	C ₄ H ₆ O ₂	butter	4	SS	4	4
20	γ-Nonalactone	C ₉ H ₁₆ O ₂	coconut	4	SS	4	4
21	Eugenol	C ₁₀ H ₁₂ O ₂	clove	4	SS	5	3
22	1-Octen-3-ol	C ₈ H ₁₆ O	mushroom, forest damp soil	4	SS	5	3
23	<i>b</i> -Ionone	C ₁₃ H ₂₂ O	violet	4	SS	4	4
24	Methional	C ₄ H ₈ OS	mashed potato, grilled onion	5	SS	6	4

^a It is necessary to use products which are pure as possible since impurities can modify the nature and intensity of the odour.

^b See the detailed formulae in Table A.3.

^c The concentrations specified have been chosen after practical tests with all the substances given in the table using panels of inexperienced assessors. The concentrations chosen correspond to the recognition threshold of 70 % of the assessors.

^d Also produces a sensation of cold.

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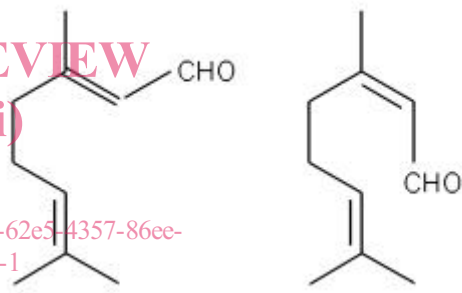
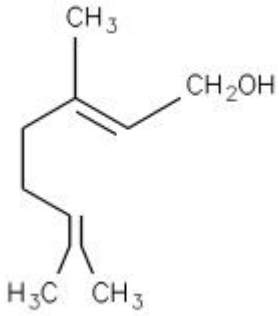

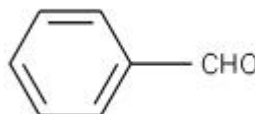
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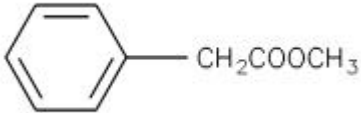
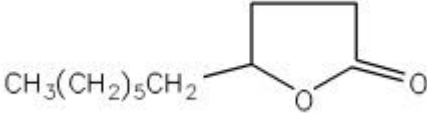
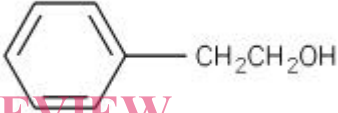
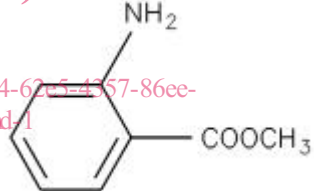
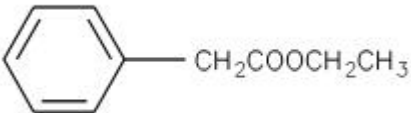
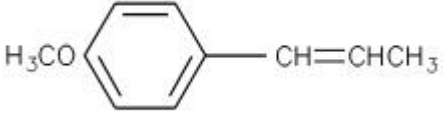
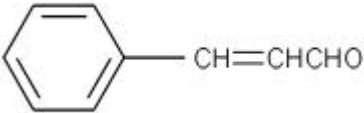
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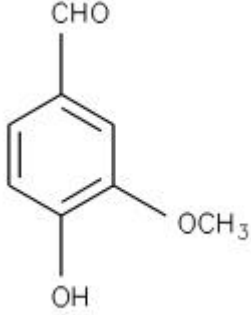
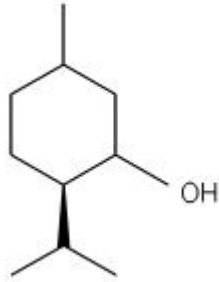
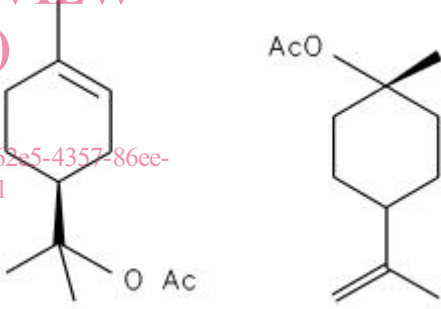
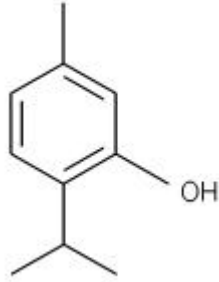
Table A.3

Replace Table A.3 by the following :

Table A.3 — Detailed formulae of odoriferous substances

No.	Chemical substance	Detailed formula
1	<i>d</i> -Limonene	
2	Citral (Geranial + Neral) <small>ISO 5496:1992/DAM 1 https://standards.iteh.ai/catalog/standards/sist/62fdbe4-62e5-4357-86ee-22dd58e52a71/iso-5496-1992-damd-1</small>	
3	Geraniol	
4	<i>cis</i> -3-Hexen-1-ol	
5	Benzaldehyde	

6	Butyric acid	$\text{CH}_2\text{CH}_2\text{CH}_2\text{COOH}$
7	Ethyl butanoate	$\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{COO}-\text{CH}_2-\text{CH}_3$
8	Benzyl acetate	
9	ϵ -Undecalactone	
10	2-Phenylethanol	
11	Methyl anthranilate	<p>ISO 5496:1992/DAMd 1 https://standards.iteh.ai/catalog/standards/sist/62fadbe4-62e5-4557-86ee-22dd58e52a71/iso-5496-1992-damd.1</p> 
12	Ethyl phenyl acetate	
13	Anethole	
14	Cinnamaldehyde	

<p>15</p>	<p>Vanillin</p>	
<p>16</p>	<p><i>l</i>-Menthol</p>	
<p>17</p>	<p>Terpinyl acetate</p>	<p style="text-align: center;">iTeh STANDARD PREVIEW (standards.iteh.ai)</p> <p style="text-align: center;"><small>ISO 5496:1992/DAM 1 https://standards.iteh.ai/catalog/standards/sist/62fdbe4-62e5-4357-86ee-22dd58e52a71/iso-5496-1992-damd-1</small></p> 
<p>18</p>	<p>Thymol</p>	
<p>19</p>	<p>Diacetyl</p>	<p>$\text{H}_3\text{CCO}-\text{COCH}_3$</p> 