
Flavor & Fragrance Standards

For the Food and Cosmetic Industry



The analysis of flavorings and fragrances is crucial for product development as well as for quality control in the food and cosmetic industry. However, taste and scent do not usually originate from single compounds, but rather from complex blends of aroma compounds. This makes the analysis of flavorings and fragrances a challenging task and requires a suitable analytical method as well as reliable analytical standards for improved confidence in results and instrumentation.

Sigma-Aldrich® provides a broad range of flavor and fragrance standards. Our portfolio focuses on analytical standards for aroma compounds from the “EU positive list of authorized flavoring substances” (EFSA 10/2012) and on the “Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products”.

This brochure gives an overview of our current assortment of about 600 neat standards and standard solutions, including:

- Certified reference materials (CRMs) *TraceCERT*®
- Allergenic compounds
- Sweeteners
- Flavor enhancers
- Alphabetical list of the complete flavor and fragrance standards portfolio

We continuously add new products to the portfolio in order to keep up-to-date with new developments in aroma analysis.

To find an updated product list of all flavor and fragrance standards, visit sigma-aldrich.com/flavor



Certified Reference Materials *TraceCERT*

Our broad flavor and fragrance portfolio includes certified reference materials (CRMs), which are produced in our accredited laboratory fulfilling both ISO 17025 and ISO Guide 34. All *TraceCERT* products are delivered with a comprehensive certificate according to ISO Guide 35, including properly calculated uncertainties taking into account homogeneity and stability of the material.

The neat CRMs are certified by quantitative NMR (qNMR) and traceable to NIST standard reference

materials. The Supelco branded CRM solutions are produced gravimetrically using NIST traceable weights for balance calibration.

The complete range of organic *TraceCERT* products can be found at sigma-aldrich.com/organiccrm

Currently, the following aroma compound CRMs are available:

| Cat. No. | Description | Package Size |
|----------|--|--------------|
| 89143 | Adipic acid <i>TraceCERT</i> | 100 mg |
| 44526 | L-Alanine <i>TraceCERT</i> | 100 mg |
| 43621 | <i>p</i> -Anisaldehyde <i>TraceCERT</i> | 100 mg |
| 51572 | L-Aspartic acid <i>TraceCERT</i> | 100 mg |
| 06185 | Benzoic acid <i>TraceCERT</i> | 1 g, 5 g |
| 55177 | Benzyl benzoate <i>TraceCERT</i> | 1 g |
| 96996 | Biphenyl <i>TraceCERT</i> | 100 mg |
| 56396 | Caffeine <i>TraceCERT</i> | 100 mg |
| 79245 | D-Carvone <i>TraceCERT</i> | 100 mg |
| 94676 | Citric acid <i>TraceCERT</i> | 100 mg |
| 49679 | <i>p</i> -Cymene <i>TraceCERT</i> | 100 mg |
| 95437 | L-Cysteine <i>TraceCERT</i> | 100 mg |
| 49603 | L-Cystine <i>TraceCERT</i> | 100 mg |
| 52229 | <i>trans</i> -Ferulic acid <i>TraceCERT</i> | 50 mg |
| 76635 | Fumaric acid <i>TraceCERT</i> | 100 mg |
| 91215 | Gallic acid <i>TraceCERT</i> | 100 mg |
| CRM47522 | (±)-Geosmin <i>TraceCERT</i> solution; 100 µg/mL in methanol | 1 mL |
| 95436 | L-Glutamic acid <i>TraceCERT</i> | 100 mg |
| 76523 | Glutamine <i>TraceCERT</i> | 100 mg |
| 89147 | Glutaric acid <i>TraceCERT</i> | 100 mg |
| 76524 | Glycin <i>TraceCERT</i> | 100 mg |
| 73767 | L-Histidine <i>TraceCERT</i> | 100 mg |
| 56241 | L-Isoleucine <i>TraceCERT</i> | 100 mg |
| 76526 | L-Leucine <i>TraceCERT</i> | 100 mg |
| 67448 | L-Lysine monohydrochloride <i>TraceCERT</i> | 100 mg |
| 68714 | Malonic acid <i>TraceCERT</i> | 100 mg |
| 39496 | L-Methionine <i>TraceCERT</i> | 100 mg |
| 94776 | Methyl hexanoate <i>TraceCERT</i> | 50 mg |
| CRM47523 | 2-Methylisoborneol <i>TraceCERT</i> solution, 100 µg/mL in methanol | 1 mL |
| 07041 | Methyl laurate <i>TraceCERT</i> | 100 mg |
| 55791 | Methyl myristate <i>TraceCERT</i> | 100 mg |
| 38383 | 1-Methylnaphthalene <i>TraceCERT</i> | 100 mg |
| 75533 | Methyl stearate <i>TraceCERT</i> | 100 mg |
| 40541 | L-Phenylalanine <i>TraceCERT</i> | 100 mg |
| 93693 | L-Proline <i>TraceCERT</i> | 100 mg |
| 53363 | Resorcinol <i>TraceCERT</i> | 100 mg |
| 52341 | Salicylic acid <i>TraceCERT</i> | 50 mg |
| 49894 | Sodium propionate <i>TraceCERT</i> | 100 mg |
| 76137 | Stearic acid <i>TraceCERT</i> | 100 mg |
| 49893 | Succinic acid <i>TraceCERT</i> | 100 mg |
| 41447 | L-(+)-Tartaric acid <i>TraceCERT</i> | 100 mg |
| 91515 | L-Tyrosine <i>TraceCERT</i> | 100 mg |
| 80026 | 2,4,6-Tribromophenol <i>TraceCERT</i> | 100 mg |
| 08896 | 2,4,6-Trichlorophenol <i>TraceCERT</i> | 100 mg |
| 50848 | L-Valine <i>TraceCERT</i> | 100 mg |
| 68654 | Vanillic acid <i>TraceCERT</i> | 50 mg |

Allergenic Compounds

In the cosmetic industry, flavorings and fragrances are applied to neutralize unpleasant odors that may be present in the chemicals or to enhance the individuality and appeal of products.

However, the Scientific Committee on Consumer Safety (SCCS 1459/11; 06/2012) reported some fragrances as recognized contact allergens. Sigma-Aldrich is happy to offer most of these compounds as analytical standards.



| Cat. No. | Description | Package Size |
|----------|---|--------------|
| 64397 | α -Amylcinnamaldehyde | 100 mg |
| 10368 | <i>trans</i> -Anethole | 1 mL, 5 mL |
| 77236 | Atranol* | 10 mg |
| 39971 | Benzyl alcohol <i>TraceCERT</i> | 100 mg |
| 55177 | Benzyl benzoate <i>TraceCERT</i> | 1 g |
| 69139 | Benzyl cinnamate* | 100 mg |
| 51031 | Benzyl salicylate | 1 mL |
| 95338 | 2-(4- <i>tert</i> -Butylbenzyl) propionaldehyde | 10 mg |
| 50843 | D-Camphor* | 100 mg |
| 79245 | (+)-Carvone <i>TraceCERT</i> | 100 mg |
| 75541 | (-)- <i>trans</i> -Caryophyllene | 1 mL |
| 93066 | Cinnamyl alcohol | 50 mg |
| 43318 | Citral | 1 mL |
| 51381 | (\pm)- β -Citronellol | 1 mL |
| 72609 | Coumarin <i>TraceCERT</i> | 100 mg |
| 43341 | α,α -Dimethylphenethyl acetate | 1 mL |
| 79891 | Eugenol <i>TraceCERT</i> | 100 mg |
| 92386 | <i>trans, trans</i> -Farnesol | 100 mg |
| 48798 | Geraniol | 1 mL, 5 mL |
| 45896 | Geranyl acetate | 1 mL |
| 14643 | 16-Hexadecanolid | 100 mg |
| 09178 | α -Hexylcinnamaldehyde* | 1 mL |
| 66010 | Hydroxycitronellal | 1 mL |
| 55862 | 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde | 10 mg |
| 34038 | Isoeugenol | 5 mL |

| Cat. No. | Description | Package Size |
|----------|---|-------------------|
| 07055 | Isoeugenyl acetate | 100 mg |
| 62118 | (<i>R</i>)-(+)-Limonene | 1 mL, 5 mL, 25 mL |
| 62128 | (<i>S</i>)-(-)-Limonene | 1 mL, 5 mL |
| 51782 | Linalool | 1 mL |
| 74856 | (-)-Linalool | 1 mL, 5 mL |
| 49599 | Linalyl acetate | 100 mg |
| 50138 | 4-Methoxybenzyl alcohol | 100 mg |
| 68982 | Methyl 2-octynoate | 1 mL |
| 76631 | Methyl salicylate | 1 mL, 5 mL |
| 75264 | Oakmoss Extract solution; 1mg/mL in ethanol | 1 mL |
| 80609 | (-)- β -Pinene | 1 mL, 5 mL |
| 80607 | (+)- β -Pinene | 1 mL, 5 mL |
| 49944 | Sclareol | 100 mg |
| 77663 | Terpineol | 1 mL, 5 mL |
| PHR1245 | Vanillin | 1 g |

*Analytical reference materials. Our analytical reference materials are certified by qNMR. The qNMR value is measured under ISO/IEC 17025 accreditation and the result is traceable to NIST standard reference materials.

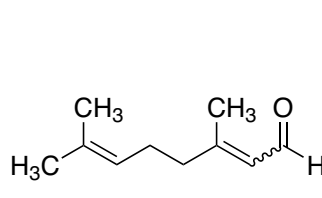


Figure 1. Molecular Structure of Citral

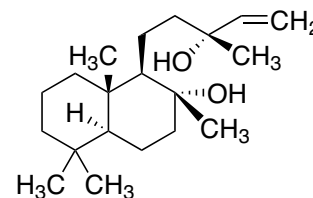


Figure 2. Molecular Structure of Sclareol

Are you already familiar with our Cosmetic Standard Portfolio?

Sigma-Aldrich offers a comprehensive range of analytical standards, including more than 300 neat and 100 single component solutions for EU-banned substances, to ensure the safety and quality of cosmetic products. Our broad portfolio also includes CRMs, which are produced in our accredited laboratory fulfilling both ISO 17025 and ISO Guide 34.

More information can be found at sigma-aldrich.com/cosmetics

Do you prefer hard copies? If so, order our brochure free of charge at sigma-aldrich.com/lit-request



Sweeteners

Natural and artificial high-intensity sweeteners are much sweeter than sugar, and much smaller amounts need to be added to the product to achieve the desired sweetness. However, due to concerns regarding customer safety, the EU introduced limits on sweeteners as food additives (European Parliament and Council Directive 94/35/EC of 30 June 1994 on sweeteners for use in foodstuffs; 2009/163/EU).

We offer our customers a comprehensive portfolio of analytical standards to monitor natural and artificial sugar substitutes. Each product has been carefully formulated to meet the needs of analysts in the food and beverage industries.

For an up-to-date product list and product ordering information, visit sigma-aldrich.com/sweeteners



| Cat. No. | Description | Package Size |
|----------|---|--------------|
| 47134 | Acesulfame K | 1 g |
| 80054 | Advantame® | 100 mg |
| 47135 | Aspartame | 500 mg |
| 89274 | (2S-cis)-(-)-5-Benzyl-3,6-dioxo-2-piperazineacetic acid | 50 mg |
| 90378 | Dulcoside A | 10 mg |
| 73132 | meso-Erythritol | 100 mg |
| PHR1002 | D-(-)-Fructose | 1 g |
| 47829 | D-(+)-Glucose | 1 g |
| 91443 | Glycyrrhizic acid ammonium salt | 10 mg |
| 80725 | Hydrocinnamic acid | 100 mg |
| 92273 | Isosteviol | 10 mg |
| PHR1025 | Lactose, Anhydrous | 1 g |
| PHR1024 | D-Lactose monohydrate | 1 g |
| PHR1007 | D-Mannitol | 1 g |
| PHR1248 | Maltitol | 500 mg |
| 49777 | Neotame | 100 mg |

| Cat. No. | Description | Package Size |
|----------|------------------------|--------------|
| 38462 | Rebaudioside A* | 10 mg |
| 49747 | Rebaudioside B | 10 mg |
| 30987 | Rebaudioside C | 10 mg |
| 19189 | Rebaudioside D | 10 mg |
| 62933 | Rubusoside | 10 mg |
| 47840 | Saccharin Calcium Salt | 1 g |
| 47827 | Sodium Cyclamate | 1 g |
| 47839 | Sodium Saccharin | 1 g |
| 47841 | D-Sorbitol | 1 g |
| 59754 | Steviolbioside | 10 mg |
| 50956 | Stevioside | 10 mg |
| 90984 | Sucralose | 100 mg |
| 75935 | D-(-)-Tagatose | 50 mg |
| 47844 | Supelco Xylitol | 1 g |
| 47253 | Supelco D-(+)-Xylose | 500 mg |

*Analytical reference materials. Our analytical reference materials are certified by qNMR. The qNMR value is measured under ISO/IEC 17025 accreditation and the result is traceable to NIST standard reference materials.

Flavor Enhancers

Flavor enhancers are substances added to food in order to enhance or intensify its flavor. In the European Union these food additives are labeled with E numbers. The safety assessment and approval are the responsibility of the European Food Safety Authority (EFSA).

For more information and a complete product list, visit sigma-aldrich.com/enumbers

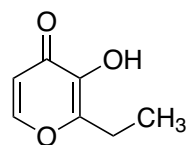


Figure 1. Molecular Structure of Ethyl maltol

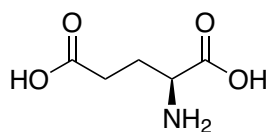


Figure 2. Molecular Structure of L-Glutamic acid

| Cat. No. | Description | E number | Package Size |
|----------|--|----------|--------------|
| 94185 | Ethyl maltol | E637 | 100 mg |
| 95436 | L-Glutamic acid <i>TraceCERT</i> | E620 | 100 mg |
| 01495 | L-Glutamic acid monosodium salt hydrate* | E620 | 1 g |
| 76524 | Glycine <i>TraceCERT</i> | E640 | 100 mg |
| 76526 | L-Leucine <i>TraceCERT</i> | E641 | 100 mg |

*Analytical reference materials. Our analytical reference materials are certified by qNMR. The qNMR value is measured under ISO/IEC 17025 accreditation and the result is traceable to NIST standard reference materials.

Alphabetical List of the Complete Flavor & Fragrance Standards Portfolio

On the following pages, the complete range of Sigma-Aldrich's flavor and fragrance standards is listed in alphabetical order.

Our portfolio is growing fast – please visit sigma-aldrich.com/flavor for an up-to-date product list and product ordering information.



| Cat. No. | Description | Package Size |
|----------|------------------------------|--------------|
| 47134 | Acesulfame K | 1 g |
| 506788 | Acetaldehyde | 1000 mg |
| 71251 | Acetic acid | 5 mL |
| 40127-U | Acetoin | 1000 mg |
| 04174 | 1-Acetonaphthone | 1 mL |
| 18478 | 2-Acetonaphthone | 100 mg |
| 90872 | Acetone | 5 mL |
| 42163 | Acetophenone | 1 mL |
| 05581 | Acetylacetone | 1 mL, 5 mL |
| 61803 | 2-Acetylpyridine | 1 mL |
| 04642 | 3-Acetylpyridine | 1 mL |
| 30642 | 2-Acetylpyrrole | 100 mg |
| 73535 | 2-Acetylthiophene | 1 mL |
| 89143 | Adipic acid <i>TraceCERT</i> | 100 mg |
| 80054 | Advantame® | 100 mg |
| 41144 | β-Alanine | 100 mg |
| 44526 | L-Alanine <i>TraceCERT</i> | 100 mg |
| 07056 | Allyl cinnamate | 1 mL |
| 18018 | Allyl cyclohexanepropionate | 1 mL |
| 41894 | Allyl hexanoate | 1 mL, 5 mL |
| 36682 | Allyl isothiocyanate | 1 g |
| 16760 | Allyl phenoxyacetate | 1 mL |
| 40647 | Allyl sulfide | 1 mL, 5 mL |
| 67369 | (-)-Ambroxide | 100 mg |
| 03835 | γ-Aminobutyric acid | 250 mg |
| PHR1327 | Ammonium chloride | 1000 mg |
| 80067 | Amyl hexanoate | 1 mL |
| 68518 | Amylamine | 1 mL |

| Cat. No. | Description | Package Size |
|----------|---|--------------|
| 64397 | α-Amylcinnamaldehyde | 100 mg |
| 10368 | <i>trans</i> -Anethole | 1 mL, 5 mL |
| 06905 | α-Angelica lactone | 1 mL |
| 07406 | <i>m</i> -Anisaldehyde | 1 mL |
| 43621 | <i>p</i> -Anisaldehyde <i>TraceCERT</i> | 100 mg |
| 94666 | <i>p</i> -Anisic acid | 100 mg |
| 96109 | Anisole | 5 mL, 10 mL |
| PHR1106 | L-Arginine | 1 g |
| 47135 | Aspartame | 500 mg |
| 51572 | L-Aspartic acid <i>TraceCERT</i> | 100 mg |
| 77236 | Atranol* | 10 mg |
| 95054 | Azelaic acid | 100 mg |
| 68381 | Benzalacetone | 100 mg |
| 09143 | Benzaldehyde | 5 mL, 25 mL |
| 43042 | 2,3-Benzofuran | 1 mL |
| 06185 | Benzoic acid <i>TraceCERT</i> | 1 g, 5 g |
| 80024 | Benzoin | 100 mg |
| PHR1204 | Benzophenone | 1 g |
| 50475 | Benzyl acetate | 1 mL, 5 mL |
| 39971 | Benzyl alcohol <i>TraceCERT</i> | 100 mg |
| 55177 | Benzyl benzoate <i>TraceCERT</i> | 1 g |
| 69139 | Benzyl cinnamate* | 100 mg |
| 89983 | Benzyl isothiocyanate | 500 mg |
| 08900 | Benzyl mercaptan | 1 mL |
| 67586 | Benzyl phenylacetate | 1 mL |
| 51031 | Benzyl salicylate | 1 mL |
| 89274 | (2 <i>S</i> - <i>cis</i>)-(-)-5-Benzyl-3,6-dioxo-2-piperazineacetic acid | 50 mg |
| 69664 | Bergapten | 25 mg |
| 96996 | Biphenyl <i>TraceCERT</i> | 100 mg |
| 442492 | Bis(2-ethylhexyl) adipate | 250 mg |
| 50375 | Bis(methylthio)methane | 100 mg |
| 95426 | (-)-α-Bisabolol | 1 mL |
| 45855 | (-)-Bornyl acetate | 1 mL, 5 mL |
| 09068 | (±)-1,3-Butanediol | 1 mL, 5 mL |
| 42038 | 2,3-Butanediol | 250 mg |
| 11038 | 2,3-Butanedione | 1 mL, 5 mL |
| 19422 | 1-Butanol | 5 mL |
| 50621 | <i>tert</i> -Butanol | 1 mL, 5 mL |
| 96870 | 2-Butanol | 1 mL, 10 mL |
| 02469 | 2-Butanone | 5 mL |
| 88497 | 3-Buten-2-ol | 1 mL, 5 mL |
| 95118 | Butyl 2-methylbutyrate | 1 mL, 5 mL |
| 73285 | Butyl acetate | 1 mL, 5 mL |
| 75031 | Butyl anthranilate | 1 mL |
| 442667 | Butyl benzoate | 1000 mg |
| 67367 | Butyl butyrate | 1 mL |
| 07364 | Butyl hexanoate | 1 mL |
| 68119 | Butyl propionate | 1 mL, 5 mL |
| 90965 | <i>sec</i> -Butylamine | 1 mL |
| 90893 | Butylamine* | 1 mL, 5 mL |

| Cat. No. | Brand | Description | Package Size |
|----------|-------|--|--------------|
| 78943 | | Butylated hydroxyanisole* | 500 mg |
| 95338 | | 2-(4-tert-Butylbenzyl) propionaldehyde | 10 mg |
| PHR1022 | | Butylparaben | 1 g |
| 506761 | | 4-tert-Butylphenol | 1000 mg |
| 19215 | | Butyric acid | 5 mL |
| 92018 | | β -Butyrolactone | 1 mL, 5 mL |
| 90970 | | γ -Butyrolactone | 1 mL, 5 mL |
| 52063 | | Cadaverine | 1 mL |
| 56396 | | Caffeine <i>TraceCERT</i> | 100 mg |
| 442505 | | Camphene | 1000 mg |
| 02070595 | | Camphor (dl) | 100 mg |
| 50843 | | D-Camphor* | 100 mg |
| 77403 | | ϵ -Caprolactam | 100 mg |
| 12084 | | Capsaicin | 10 mg, 50 mg |
| 40363 | | Carbon disulfide solution; 5000 μ g/mL in methanol | 1 mL |
| 94415 | | 3-Carene | 1 mL, 5 mL |
| 42632 | | Carvacrol | 50 mg |
| 61370 | | (-)-Carveol, mixture of isomers | 50 mg |
| 22060 | | (-)-Carvone | 1 mL, 5 mL |
| 79245 | | D-Carvone <i>TraceCERT</i> | 100 mg |
| 75541 | | (-)- <i>trans</i> -Caryophyllene | 1 mL |
| 91034 | | (-)-Caryophyllene oxide | 100 mg |
| 93483 | | (+)-Cedrol | 100 mg |
| 68824 | | Cetyl alcohol | 1 g, 5 g |
| 27393 | | 1,4-Cineole | 1 mL, 5 mL |
| 06536 | | <i>trans</i> -Cinnamaldehyde | 50 mg |
| 97013 | | <i>trans</i> -Cinnamic acid | 50 mg |
| 42759 | | Cinnamyl acetate | 1 mL |
| 93066 | | Cinnamyl alcohol | 50 mg |
| 43318 | | Citral | 1 mL |
| 94676 | | Citric acid <i>TraceCERT</i> | 100 mg |
| 72638 | | (\pm)-Citronellal | 1 mL |
| 27483 | | (-)- β -Citronellol | 1 mL, 5 mL |
| 51381 | | (\pm)- β -Citronellol | 1 mL |
| 43646 | | Citronellyl acetate | 1 mL |
| 72609 | | Coumarin <i>TraceCERT</i> | 100 mg |
| 65996 | | <i>m</i> -Cresol | 1 mL, 5 mL |
| 36922 | | Cresol | 250 mg |
| 42429 | | <i>p</i> -Cresol | 5 g |
| 35376 | | Cuelure | 25 mg |
| 16679 | | Cuminaldehyde | 1 mL |
| 44113 | | Cyclohexanol | 1 mL, 5 mL |
| 02482 | | Cyclohexanone | 1 mL |
| 08268 | | Cyclopentanol | 1 mL |
| 08299 | | Cyclopentanone | 5 mL, 50 mL |
| 49679 | | <i>p</i> -Cymene <i>TraceCERT</i> | 100 mg |
| 95437 | | L-Cysteine <i>TraceCERT</i> | 100 mg |
| 49603 | | L-Cystine <i>TraceCERT</i> | 100 mg |

| Cat. No. | Description | Package Size |
|----------|---|--------------|
| 90628 | <i>trans,trans</i> -2,4-Decadienal | 1 mL |
| 93738 | γ -Decalactone* | 1 mL |
| 21409 | Decanoic acid | 5 g |
| 59581 | Decanal | 1 mL |
| 442539 | 1-Decanol | 1000 mg |
| 68228 | 2-Decanone | 5 mL |
| 44191 | 9-Decenoic acid | 100 mg |
| 67373 | Dibenzyl disulfide | 100 mg |
| 80865 | Dibutyl sebacate | 1 mL |
| 33983 | Dibutyl succinate | 100 mg |
| 91969 | Diethyl carbonate | 1 mL, 5 mL |
| 04151 | Diethyl malonate | 1 mL, 5 mL |
| 50128 | Diethyl oxalate | 5 mL |
| 53008 | Diethyl phthalate | 5 mL |
| 07429 | Diethyl succinate | 5 mL |
| 94463 | 2,3-Diethyl-5-methylpyrazine | 100 mg |
| 16877 | 2,3-Diethylpyrazine* | 1 mL |
| 09164 | (+)-Dihydrocarvone, mixture of isomers | 50 mg |
| 00138 | Dihydrojasnone | 1 mL |
| 55688 | Dihydromyrcenol | 1 mL |
| 92588 | 3,4-Dihydroxybenzaldehyde | 100 mg |
| 08992 | 3,4-Dihydroxybenzoic acid | 50 mg |
| 56931 | 2,6-Diisopropylphenol | 1 mL |
| PHR1194 | 3,4-Dimethoxybenzaldehyde | 500 mg |
| 53877 | 2,6-Dimethoxyphenol | 100 mg |
| 68986 | Dimethyl disulfide | 1 mL |
| 04011 | Dimethyl malonate | 1 mL |
| 41320 | Dimethyl phthalate | 1 mL, 5 mL |
| 73605 | Dimethyl succinate | 1 mL |
| 76048 | Dimethyl sulfide | 100 mg |
| 94563 | Dimethyl sulfoxide | 1 mL, 10 mL |
| 79592 | Dimethyl trisulfide | 10 mg |
| 44527 | 4,5-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one | 100 mg |
| 52125 | 3,7-Dimethyl-3-octanol | 1 mL |
| 36713 | 2,3-Dimethylphenol | 1000 mg |
| 36607 | 2,4-Dimethylphenol | 1000 g |
| 36714 | 2,5-Dimethylphenol | 1000 mg |
| 36715 | 2,6-Dimethylphenol | 1000 mg |
| 36716 | 3,4-Dimethylphenol | 1 g |
| 36717 | 3,5-Dimethylphenol | 1 g |
| 43341 | α,α -Dimethylphenethyl acetate | 1 mL |
| 07187 | 2,3-Dimethylpyrazine* | 1 mL |
| 84233 | 2,5-Dimethylpyrazine | 1 mL, 5 mL |
| 42793 | 2,6-Dimethylpyrazine | 100 mg |
| 43236 | 2-Ethyl-3(5 or 6)-dimethylpyrazine, mixture of isomers* | 100 mg |
| 48155 | Diphenyl ether solution; 2000 μ g/mL in methanol | 1 mL |
| 77991 | γ -Dodecalactone | 1 mL |

| Cat. No. | Description | Package Size |
|----------|--|--------------|
| 92255 | δ -Dodecalactone | 100 mg |
| 44010 | Dodecane | 5 mL, 25 mL |
| 38688 | Dodecanenitrile | 1 mL, 5 mL |
| 61609 | Dodecanoic acid | 5 g |
| 75544 | 1-Dodecanol | 1 mL, 5 mL |
| 03411 | 2-Dodecanone* | 1 mL, 5 mL |
| 90378 | Dulcoside A | 10 mg |
| 44818 | Eicosane | 1 g, 5 g |
| 73132 | <i>meso</i> -Erythritol | 100 mg |
| 34098 | Estragole | 1 mL |
| 90968 | 1,2-Ethanedithiol | 1 mL |
| 80534 | Ethanethiol | 1 mL |
| 46139 | Ethanol | 5 mL |
| 55752 | 2-Ethoxynaphthalene | 100 mg |
| 68104 | Ethyl 2-methylpentanoate* | 1 mL |
| 95563 | Ethyl 2- <i>trans</i> -4- <i>cis</i> -decadienoate | 25 mg |
| 55821 | Ethyl 3-hydroxybutyrate | 100 mg |
| 58958 | Ethyl acetate | 5 mL |
| 63954 | Ethyl acetoacetate | 1 mL |
| 76130 | Ethyl acrylate | 5 mL |
| 72505 | Ethyl benzoate | 1 mL, 5 mL |
| 75563 | Ethyl butyrate | 1 mL, 5 mL |
| 66761 | Ethyl cinnamate | 100 mg |
| 00733 | Ethyl decanoate | 1 mL, 5 mL |
| 88554 | Ethyl formate | 1 mL, 5 mL |
| 97587 | Ethyl heptanoate | 1 mL, 5 mL |
| 08375 | Ethyl hexanoate* | 1 mL |
| 19536 | Ethyl isobutyrate | 1 mL, 5 mL |
| 71607 | Ethyl isovalerate | 1 mL |
| 08996 | Ethyl lactate | 1 mL |
| 07523 | Ethyl laurate | 1 mL |
| 73539 | Ethyl linoleate | 1 mL |
| 94185 | Ethyl maltol | 100 mg |
| 04597 | Ethyl myristate | 1 mL |
| 68203 | Ethyl nicotinate | 1 mL |
| 44879 | Ethyl octanoate* | 1 mL, 5 mL |
| 55441 | Ethyl oleate | 250 mg |
| 67107 | Ethyl palmitate | 250 mg |
| 91224 | Ethyl phenylacetate | 1 mL, 5 mL |
| 96727 | Ethyl propionate | 1 mL |
| 30784 | Ethyl valerate | 1 mL |
| 77522 | Ethyl vanillate* | 25 mg |
| 75042 | Ethyl vanillin | 100 mg |
| 08607 | 2-Ethyl-1-hexanol | 1 mL, 5 mL |
| 16315 | 2-Ethyl-3-methylpyrazine* | 1 mL |
| 03079 | Ethylbenzene | 5 mL, 10 mL |
| 53071 | Ethylene glycol butyl ether | 1 mL, 5 mL |
| 69530 | 2-Ethylfuran | 1 mL, 5 mL |
| 39774 | 4-Ethylguaiacol | 1 mL, 5 mL |
| 02529 | 2-Ethylhexanoic acid | 1 mL, 5 mL |
| 52184 | 2-Ethylhexyl salicylate | 1 mL |

| Cat. No. | Description | Package Size |
|----------|--|----------------------|
| 4542585 | Ethylmethacrylate | 100 mg |
| PHR1011 | Ethylparaben | 1 g |
| 36723 | 3-Ethylphenol | 1 g |
| 36724 | 4-Ethylphenol | 1 g |
| 90728 | Ethylpyrazine | 100 mg |
| 29210 | Eucalyptol | 1 mL |
| 79891 | Eugenol <i>TraceCERT</i> | 100 mg |
| 43348 | Farnesol | 1 mL |
| 46208 | (+)-Fenchone | 1 mL, 5 mL, 25 mL |
| 43226 | Fenchyl alcohol | 100 mg |
| 52229 | <i>trans</i> -Ferulic acid <i>TraceCERT</i> | 50 mg |
| 88789 | Formaldehyde dimethyl acetal | 1 mL, 5 mL |
| PHR1002 | D(-)-Fructose | 1 g |
| 76635 | Fumaric acid <i>TraceCERT</i> | 100 mg |
| 67319 | 2-Furanmethanethiol | 100 mg |
| 04623 | Furfural* | 1 mL |
| 02369 | Furfuryl acetate* | 1 mL |
| 30965 | Furfuryl alcohol | 1 mL, 5 mL |
| 19932 | Furfuryl propionate | 5 mL |
| 57552 | 2-Furoic acid | 100 mg |
| 14249 | 2-Furyl methyl ketone | 1 mL |
| 91215 | Gallic acid <i>TraceCERT</i> | 100 mg |
| CRM47522 | (\pm)-Geosmin <i>TraceCERT</i> solution; 100 μ g/mL in methanol | 1 mL |
| 48798 | Geraniol | 1 mL, 5 mL |
| 45896 | Geranyl acetate | 1 mL |
| 50866 | [6]-Gingerol | 10 mg |
| 01514 | [8]-Gingerol | 10 mg |
| 42630 | [10]-Gingerol | 10 mg |
| 54328 | (-)-Globulol | 10 mg |
| 47829 | D-(+) Glucose | 1 g |
| 01495 | L-Glutamic acid monosodium salt <i>hydrate</i> * | 1 g |
| 95436 | L-Glutamic acid <i>TraceCERT</i> | 100 mg |
| 76523 | Glutamine <i>TraceCERT</i> | 100 mg |
| 89147 | Glutaric acid <i>TraceCERT</i> | 100 mg |
| 77067 | Glycerol | 1 mL, 5 mL |
| 76524 | Glycin <i>TraceCERT</i> | 100 mg |
| 91443 | Glycyrrhizic acid ammonium salt | 10 mg |
| PHR1136 | Guaiacol | 1.5 g |
| 51523 | Henicosane | 1 g, 5 g |
| 61696 | Heptaldehyde | 1 mL |
| 43858 | Heptanoic acid | 1 mL, 5 mL |
| 72954 | 1-Heptanol | 1 mL, 5 mL |
| 43212 | 3-Heptanol | 1 mL |
| 02476 | 2-Heptanone | 1 mL |
| 90046 | 3-Heptanone | 1 mL, 5 mL |
| 46204 | 4-Heptanone | 5 mL |
| 00931 | <i>cis</i> -4-Hepten-1-al | 5 mL |
| 90244 | <i>trans</i> -2-Heptenal | 100 mg |

| Cat. No. | Description | Package Size |
|----------|---|----------------|
| 14643 | 16-Hexadecanolide | 100 mg |
| 95135 | <i>cis</i> -11-Hexadecenal | 1 mL |
| 18109 | Hexanal | 1 mL |
| 76717 | <i>trans</i> -2-Hexen-1-al | 500 mg |
| 75034 | 2,3-Hexanedione | 100 mg |
| 75018 | 1-Hexanethiol | 1 mL |
| 21529 | Hexanoic acid | 5 mL |
| 73117 | 1-Hexanol | 1 mL, 5 mL |
| 04649 | 3-Hexanol | 1 mL |
| 91316 | <i>cis</i> -3-Hexen-1-ol | 100 mg |
| 74597 | <i>cis</i> -3-Hexenyl acetate | 1 mL |
| 53184 | Hexyl 2-methylbutanoate* | 1 mL |
| 25539 | Hexyl acetate | 1 mL, 5 mL |
| 18282 | Hexyl hexanoate | 1 mL |
| 61690 | Hexyl salicylate* | 5 mL |
| 50803 | Hexylamine | 1 mL |
| 09178 | α -Hexylcinnamaldehyde* | 1 mL |
| 50797 | Hexylene glycol | 1 mL |
| 73767 | L-Histidine <i>TraceCERT</i> | 100 mg |
| 12448 | α -Humulene | 250 mg |
| 93762 | Hydrocinnamaldehyde* | 1 mL |
| 80725 | Hydrocinnamic acid | 100 mg |
| 44869 | 4-Hydroxy-2,5-dimethyl-3(2H)-furanone | 100 mg |
| 89396 | 2-Hydroxy-3,5,5-trimethyl-2-cyclohexen-1-one* | 100 mg |
| 90034 | 4-Hydroxy-3-methoxycinnamic acid* | 100 mg |
| 78891 | 4-Hydroxy-4-methyl-2-pentanone | 1 mL, 5 mL |
| 55862 | 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde | 10 mg |
| 98837 | 4'-Hydroxyacetophenone | 100 mg |
| 91554 | 4-Hydroxybenzaldehyde | 250 mg |
| PHR1048 | 4-Hydroxybenzoic acid | 1 g |
| 36333 | 3-Hydroxybenzoic acid | 100 mg |
| 66010 | Hydroxycitronellal | 1 mL |
| 53407 | 5-(Hydroxymethyl)furfural | 100 mg |
| 68524 | 4-(4-Hydroxyphenyl)-2-butanone | 100 mg |
| 79058 | 2-(4-Hydroxyphenyl)ethanol | 100 mg, 500 mg |
| 442619 | Indole | 1000 mg |
| 90966 | β -Ionol | 1 mL |
| 03642 | Ionone | 100 mg |
| 91036 | β -Ionone | 100 mg |
| 69529 | Isoamyl butyrate | 5 mL |
| 95668 | Isoamyl octanoate | 1 mL, 5 mL |
| 94823 | Isobutyl acetate | 1 mL, 5 mL |
| 94888 | Isobutyl butyrate | 1 mL, 5 mL |
| 06224 | 2-Isobutyl-3-methoxypyrazine | 1 mL |
| 68529 | Isobutyraldehyde | 1 mL, 5 mL |
| 46935-U | Isobutyric acid | 500 mg |
| 34038 | Isoeugenol | 5 mL |

| Cat. No. | Description | Package Size |
|----------|--|-------------------|
| 07055 | Isoeugenyl acetate | 100 mg |
| 56241 | L-Isoleucine <i>TraceCERT</i> | 100 mg |
| 59802 | (1 <i>S</i> ,2 <i>R</i> ,5 <i>R</i>)-(+)-Isomenthol | 25 mg |
| 79857 | Isopentyl acetate | 1 mL, 5 mL |
| 48545 | Isophorone | 5000 mg |
| 74598 | Isopropenyl acetate | 1 mL |
| 90871 | Isopropyl acetate | 1 mL, 5 mL, 10 mL |
| PHR1123 | Isopropyl myristate | 1 g |
| PHR1137 | Isopropyl palmitate | 1 g |
| 47527-U | 2-Isopropyl-3-methoxypyrazine solution; 100 μ g/mL in methanol | 1 mL |
| 45945 | Isopropylamine | 1 g |
| 59770 | (-)-Isopulegol | 5 mL |
| 68853 | Isoquinoline | 1 mL |
| 92273 | Isosteviol | 10 mg |
| 61848 | Isovaleraldehyde | 100 mg |
| 78651 | Isovaleric acid | 1 mL, 5 mL |
| 59975 | Jasmone | 1 mL |
| 95197 | Kojic acid | 100 mg |
| PHR1024 | D-Lactose monohydrate | 1 g |
| PHR1025 | Lactose, Anhydrous | 1 g |
| 76526 | L-Leucine <i>TraceCERT</i> | 100 mg |
| 41474 | Levulinic acid | 100 mg |
| 62118 | (<i>R</i>)-(+)-Limonene | 1 mL, 5 mL, 25 mL |
| 62128 | (<i>S</i>)-(-)-Limonene | 1 mL, 5 mL |
| 74856 | (-)-Linalool | 1 mL, 5 mL |
| 51782 | Linalool | 1 mL |
| 49599 | Linalyl acetate | 100 mg |
| 68305 | Linalyl anthranilate | 1 mL |
| 62230 | Linoleic acid | 5 mL, 25 mL |
| 04991 | 2,6-Lutidine | 5 mL |
| 23128 | L-Lysine | 100 mg |
| 67448 | L-Lysine monohydrochloride <i>TraceCERT</i> | 100 mg |
| 94916 | DL-Malic acid | 100 mg |
| 68714 | Malonic acid <i>TraceCERT</i> | 100 mg |
| PHR1248 | Maltitol | 500 mg |
| 18299 | Maltol | 100 mg |
| PHR1007 | D-Mannitol | 1 g |
| 68561 | Menthallactone | 5 mL |
| 05174 | DL-Menthol | 100 mg |
| PHR1116 | L-Menthol | 1 g |
| 63677 | (-)-Menthone | 5 mL, 25 mL |
| 95401 | Menthone | 1 mL, 5 mL |
| 45985 | (1 <i>R</i>)-(-)-Menthyl acetate | 1 mL, 5 mL |
| 38229 | 3-Mercapto-3-methyl-butyl-formate* | 100 mg |
| 39496 | L-Methionine <i>TraceCERT</i> | 100 mg |
| 89189 | 2-Methoxy-4-vinylphenol | 100 mg |
| 52222 | 4'-Methoxyacetophenone | 100 mg |

| Cat. No. | Description | Package Size |
|----------|--|----------------------|
| 94414 | 2-Methoxybenzaldehyde | 100 mg |
| 50138 | 4-Methoxybenzyl alcohol | 100 mg |
| 61384 | <i>trans</i> -p-Methoxycinnamaldehyde | 50 mg |
| 42248 | 7-Methoxycoumarin | 10 mg |
| 92264 | 4-Methoxyphenol | 250 mg |
| 59702 | 4-(4-Methoxyphenyl)-2-butanone | 1 mL |
| 05517 | Methyl 2-methylbutyrate | 1 mL |
| 50921 | Methyl 2-nonynoate* | 1 mL |
| 68982 | Methyl 2-octynoate | 1 mL |
| 77938 | Methyl 3-hydroxyhexanoate | 100 mg |
| 45997 | Methyl acetate | 1 mL, 5 mL |
| 18344 | Methyl benzoate | 1 mL, 5 mL |
| 41263 | Methyl benzoylformate | 1 mL |
| 19358 | Methyl butyrate | 1 mL, 5 mL |
| 80835 | Methyl cinnamate* | 250 mg |
| 75032 | Methyl <i>trans</i> -cinnamate | 50 mg |
| 96848 | Methyl crotonate | 1 mL |
| 80133 | Methyl cyclopentenolone | 100 mg |
| 21479 | Methyl decanoate | 1 mL, 5 mL |
| 59677 | Methyl dihydrojasmonate | 1 mL |
| 04607 | Methyl eugenol | 50 mg |
| 06547 | Methyl formate | 5 mL |
| 75218 | Methyl heptanoate | 1 mL, 5 mL |
| 94776 | Methyl hexanoate <i>TraceCERT</i> | 50 mg |
| 36492 | Methyl isovalerate | 1 mL |
| 90867 | (<i>S</i>)-Methyl lactate* | 1 mL |
| 07041 | Methyl laurate <i>TraceCERT</i> | 100 mg |
| 40439 | Methyl methacrylate solution, 1000 µg/mL in methanol | 1 mL |
| 55791 | Methyl myristate <i>TraceCERT</i> | 100 mg |
| 69193 | Methyl nicotinate | 100 mg |
| 76368 | Methyl nonanoate | 1 mL, 5 mL |
| 21719 | Methyl octanoate | 5 mL |
| 76159 | Methyl palmitate | 1 g, 5 g |
| 42958 | Methyl phenylacetate | 1 mL |
| 81988 | Methyl propionate | 1 mL |
| 62535 | Methyl <i>p</i> - <i>tert</i> -butylphenylacetate | 100 mg |
| 76631 | Methyl salicylate | 1 mL, 5 mL |
| 75533 | Methyl stearate <i>TraceCERT</i> | 100 mg |
| 94560 | Methyl valerate | 1 mL, 5 mL |
| 05169 | N-Methyl-2-pyrrolicarboxaldehyde | 1 mL |
| 52566 | 2-Methyl-1-butanol | 1 mL |
| 77664 | 3-Methyl-1-butanol | 1 mL, 5 mL |
| 82059 | 2-Methyl-1-propanol | 1 mL, 5 mL, 10 mL |
| 19954 | 2-Methyl-2-butanol | 1 mL, 5 mL |
| 02474 | 4-Methyl-2-pentanone | 5 mL |
| 40349 | 4-Methyl-2-pentanone solution; 5000 µg/mL in methanol | 1 mL |
| 05392 | 2-Methyl-3-buten-2-ol | 1 mL |
| 49722 | 4-Methyl-3-penten-2-one* | 1 mL |

| Cat. No. | Description | Package Size |
|----------|--|-------------------|
| 67397 | 6-Methyl-5-hepten-2-one | 1 mL |
| 61352 | 4-Methyl-5-thiazoleethanol | 100 mg |
| 59932 | 4'-Methylacetophenone | 1 mL |
| 18073 | 2-Methylanisole | 100 mg |
| 78975 | α-Methylbenzyl acetate | 1 mL |
| 46212 | 3-Methylbutan-2-one | 5 mL |
| 30761 | 2-Methylbutyl acetate | 100 mg |
| 61904 | 2-Methylbutyraldehyde | 100 mg |
| 39587 | 2-Methylfuran | 1 mL, 5 mL |
| 91307 | 5-Methylfurfural* | 1 mL |
| 90961 | 3-Methylindole | 100 mg |
| CRM47523 | 2-Methylisoborneol <i>TraceCERT</i> solution, 100 µg/mL in methanol | 1 mL |
| 38383 | 1-Methylnaphthalene <i>TraceCERT</i> | 100 mg |
| PHR1012 | Methylparaben | 1 g, 10 g |
| 68320 | 3-Methylpentane | 5 mL, 50 mL |
| PHR1223 | 2-Methylpyrazine | 500 mg |
| 18698 | 1-Methylpyrrole | 1 mL, 5 mL |
| 49597 | 5-Methylquinoxaline | 100 mg |
| 43919 | 4-Methylthiazole | 1 mL, 5 mL |
| 44638 | 3-(Methylthio)propionaldehyde* | 500 mg |
| 78833 | 2-Methylthiophene | 1 mL, 5 mL |
| 64643 | Myrcene | 100 mg, 500 mg |
| 70079 | Myristic acid | 5 g |
| 70158 | (-)-Myrtenol | 1 mL |
| 92015 | 2-Naphthalenethiol | 100 mg |
| 91842 | Naringin* | 500 mg |
| 75041 | Neohesperidin dihydrochalcone | 100 mg |
| 49777 | Neotame | 100 mg |
| 50949 | Nerol | 1 mL |
| 00459 | Nerolidol | 1 mL |
| 46015 | Neryl acetate | 1 mL |
| 74158 | Nonadecane | 1 g, 5 g |
| 61410 | <i>trans,trans</i> -2,4-Nonadienal | 1 mL, 5 mL |
| 05549 | <i>trans-2,cis-6</i> -Nonadienal | 100 mg |
| 44542 | γ-Nonalactone* | 1 mL |
| 442719 | Nonanal | 1000 mg |
| 73982 | Nonanoic acid | 5 mL |
| 63969 | 2-Nonanone | 1 mL |
| 73867 | 3-Nonanone* | 1 mL, 5 mL |
| 07592 | <i>trans-2</i> -Nonenal | 1 mL |
| 44889 | (+)-Nootkatone | 50 mg |
| 75264 | Oakmoss Extract solution; 1 mg/mL in ethanol | 1 mL |
| 51573 | γ-Octalactone | 100 mg |
| 94490 | δ-Octalactone, mixture of isomers | 1 mL, 5 mL |
| 52466 | o-Octanal | 1 mL, 5 mL |
| 21639 | Octanoic acid | 5 mL |
| 95446 | 1-Octanol | 1 mL, 5 mL |
| 93856 | 3-Octanol | 1 mL |

| Cat. No. | Description | Package Size |
|----------|---|----------------------|
| 02479 | 2-Octanone | 1 mL, 5 mL |
| 46214 | 3-Octanone | 5 mL |
| 52464 | <i>trans</i> -2-Octenal* | 1 mL, 5 mL |
| 74900 | 1-Octene | 5 mL, 50 mL |
| 68225 | 1-Octen-3-ol | 5 mL |
| 04622 | Octyl acetate | 1 mL |
| 75090 | Oleic acid | 5 mL, 25 mL |
| 08066 | Oleyl alcohol | 100 mg |
| 76119 | Palmitic acid | 5 g |
| N12826 | 2,3,4,5,6-Pentachloroanisole | 1 g |
| 48555-U | Pentachlorophenol | 5000 mg |
| 48692 | Pentachlorophenol solution; <i>500 µg/mL in methanol</i> | 1 mL |
| 76509 | Pentadecane | 5 mL, 25 mL |
| 69043 | 2,3-Pentanedione | 100 mg |
| 77597 | 1-Pentanol | 1 mL, 5 mL, 10 mL |
| 46211 | 2-Pentanone | 5 mL |
| 40129-U | 3-Pentanone | 1000 mg |
| 01984 | 1-Penten-3-ol | 250 mg |
| 76723 | 1-Penten-3-one | 1 mL |
| 94575 | <i>trans</i> -2-Pentenal | 1 mL |
| 40631 | 4-Pentenyl acetate* | 250 mg |
| 66962 | Pentyl acetate | 1 mL |
| 14672 | 2-Pentyl butyrate | 1 mL |
| 03030 | 2-Pentylfuran | 1 mL |
| 04969 | (S)-(-)-Perillaldehyde | 1 mL |
| 77311 | (-)-Perillyl alcohol | 1 mL |
| 73747 | Phenethyl acetate | 1 mL, 5 mL |
| 41346 | Phenethylamine | 1 mL, 5 mL |
| 35952 | Phenol | 500 mg, 1 g |
| 34366 | Phenoxyacetic acid | 250 mg |
| 30311 | Phenyl acetate | 1 mL |
| 38166 | Phenyl acetic acid | 100 mg |
| 92528 | Phenyl disulfide | 100 mg |
| PHR1152 | Phenyl salicylate | 1 g |
| 40541 | L-Phenylalanine <i>TraceCERT</i> | 100 mg |
| PHR1122 | Phenylethyl alcohol | 1.5 g, 5 g |
| 45529 | 2-Phenylphenol | 250 mg |
| 91897 | Phloretin* | 10mg |
| 79589 | Phlorizin dihydrate | 1 mL |
| 55906 | Phthalide | 100 mg |
| 74350 | 2-Picoline | 500 mg |
| 05339 | 3-Picoline | 1 mL |
| 40519 | 4-Picoline* | 1 mL, 5 mL |
| 80599 | (-)- α -Pinene | 1 mL, 5mL |
| 80605 | (+)- α -Pinene | 1 mL, 5mL |
| 80609 | (-)- β -Pinene | 1 mL, 5mL |
| 94209 | Piperazine | 100 mg |
| 76046 | Piperidine | 100 mg |
| 75047 | Piperine | 50 mg |

| Cat. No. | Description | Package Size |
|----------|------------------------------------|----------------------|
| 03419 | Piperonal | 100 mg, 1 g |
| 75833 | Prenyl acetate | 1 mL |
| 93693 | L-Proline <i>TraceCERT</i> | 100 mg |
| 12279 | 1,2-Propanediol | 1 mL, 5 mL |
| 91237 | 2-Propanol | 1 mL, 5 mL, 10 mL |
| 96566 | 1-Propanol | 5 mL, 10 mL |
| 64409 | Propionaldehyde | 1 mL, 5 mL |
| 94425 | Propionic acid | 1 mL, 5 mL |
| 61074 | Propiophenone | 1 mL, 5 mL |
| 40858 | Propyl acetate | 1 mL, 5 mL |
| PHR1118 | Propyl gallate | 1 g |
| 53646 | Propylamine | 1 mL |
| 82569 | (+)-Pulegone | 5 mL |
| 51799 | Putrescine | 100 mg |
| 65693 | Pyrazine | 100 mg |
| 40751 | Pyrazinecarboxamide | 100 mg |
| 02486 | Pyridine | 1 mL |
| 49817 | Pyrrole | 1 mL, 5 mL |
| 69581 | Pyrrolidine* | 1 mL, 5 mL |
| 46944-U | (-)-Quinic acid | 500 mg |
| 48457 | Quinine hydrochloride dihydrate | 500 mg |
| 94517 | Quinoline | 1 mL |
| 38462 | Rebaudioside A* | 10 mg |
| 49747 | Rebaudioside B | 10 mg |
| 30987 | Rebaudioside C | 10 mg |
| 19189 | Rebaudioside D | 10 mg |
| 53363 | Resorcinol <i>TraceCERT</i> | 100 mg |
| 83917 | (-)-Rose oxide | 1 mL |
| 83915 | (+)-Rose oxide | 1 mL |
| 62933 | Rubusoside | 10 mg |
| 96573 | Sabinene hydrate | 500 mg, 5 g |
| 47840 | Saccharin Calcium Salt | 1 g |
| 79588 | D-(-)-Salicin | 100 mg |
| 03273 | Salicylaldehyde | 1 mL, 5 mL |
| 52341 | Salicylic acid <i>TraceCERT</i> | 50 mg |
| 49944 | (-)-Sclareol | 100 mg |
| 56699 | (3aR)-(+)-Sclareolide | 100 mg |
| 93878 | <i>trans</i> -Sinapic acid | 50 mg |
| PHR1231 | Sodium benzoate | 1 g |
| 47827 | Sodium cyclamate | 1 g |
| 49894 | Sodium propionate <i>TraceCERT</i> | 100 mg |
| 47839 | Sodium Saccharin | 1 g |
| 47845 | Sorbic acid | 1000 mg |
| 47841 | D-Sorbitol | 1 g |
| PHR1006 | D-Sorbitol | 1 g |
| 76137 | Stearic acid <i>TraceCERT</i> | 100 mg |
| PHR1115 | Stearyl alcohol | 1 g |
| 19345 | Steviol | 10 mg |
| 59754 | Steviolbioside | 10 mg |
| 50956 | Stevioside | 10 mg |

| Cat. No. | Description | Package Size |
|----------|---|--------------|
| 45993 | Styrene | 250 mg |
| 48347 | Styrene solution; 200 µg/mL in methanol | 1 mL |
| 49893 | Succinic acid <i>TraceCERT</i> | 100 mg |
| 90984 | Sucralose | 100 mg |
| 94474 | D-(+)-Sucrose octaacetate | 100 mg |
| 47123 | Sunflower seed oil | 1000 mg |
| 08319 | Syringaldehyde | 100 mg |
| 63627 | Syringic acid | 100 mg |
| 75935 | D-(-)-Tagatose | 50 mg |
| 41447 | L-(+)-Tartaric acid <i>TraceCERT</i> | 100 mg |
| PHR1109 | Taurine | 1 g |
| 05089 | δ-Tetradecalactone | 1 mL |
| 49598 | (-)-Terpinen-4-ol | 50 mg |
| 49598 | (-)-Terpinen-4-ol | 50 mg |
| 86476 | γ-Terpinene | 1 mL, 5 mL |
| 77663 | Terpineol | 1 mL, 5 mL |
| 30627 | α-Terpineol | 100 mg |
| 87139 | Tetradecane | 5 mL, 25 mL |
| PHR1135 | 1-Tetradecanol | 1 g |
| 95162 | 2,3,5,6-Tetramethylpyrazine | 100 mg |
| PHR1037 | Thiamine hydrochloride | 1 g |
| 92358 | Thioanisole | 1 mL |
| 04314 | Thujone Standard Mixture | 1 mL, 5 mL |
| 72477 | Thymol | 500 mg |
| 03416 | Thymoquinone | 100 mg |
| 92819 | o-Tolualdehyde | 1 mL |
| 41423 | p-Tolualdehyde | 1 mL, 5 mL |
| 74103 | Triacetin | 1 mL, 5 mL |
| 33489 | 2,4,6-Tribromoanisole | 100 mg |
| 48084 | 2,4,6-Tribromophenol solution; 2000 µg/mL in methanol | 1 mL |
| 80026 | 2,4,6-Tribromophenol <i>TraceCERT</i> | 100 mg |
| 34384 | Trichloroanisole | 100 mg |
| 47526-U | 2,4,6-Trichloroanisole solution; 100 µg/mL in methanol | 1 mL |
| 34023 | 2,4,6-Trichloroanisole-d ₅ | 50 mg |

| Cat. No. | Description | Package Size |
|----------|---|------------------|
| 40019 | 2,4,6-Trichlorophenol solution; 5000 µg/mL in methanol | 1 mL |
| 08896 | 2,4,6-Trichlorophenol <i>TraceCERT</i> | 100 mg |
| 14849 | Triethyl citrate | 1 mL |
| 43103 | Triethyl orthoformate | 1 mL, 5 mL |
| 73487 | Triethylamine | 1 mL, 5 mL |
| 14239 | 2,6,6-Trimethyl-2-cyclohexene-1,4-dione | 100 mg |
| 41284 | Trimethylamine hydrochloride | 100 mg |
| 35998 | 2,4,6-Trimethylphenol | 250 mg |
| 50714 | 2,3,5-Trimethylpyrazine | 1 mL |
| 76047 | Tripropionin | 100 mg |
| 80345 | Tyramine | 100 mg |
| 91515 | L-Tyrosine <i>TraceCERT</i> | 100 mg |
| 89985 | γ-Undecalactone | 1 mL |
| 80139 | Undecanal | 1 mL |
| 94000 | Undecane | 5 mL, 25 mL |
| 89764 | Undecanoic acid | 1 g |
| PS951 | 2-Undecanone | 1000 mg |
| 68738 | 6-Undecanone | 1 mL |
| 73537 | 10-Undecenoic acid | 1 mL |
| 76607 | Urethane | 100 mg |
| 42272 | Valeraldehyde | 1 mL |
| 06808 | (+)-Valencene | 50 mg |
| 75054 | Valeric acid | 1 mL, 5 mL |
| 40951 | γ-Valerolactone | 1 mL |
| 50848 | L-Valine <i>TraceCERT</i> | 100 mg |
| 68654 | Vanillic acid <i>TraceCERT</i> | 50 mg |
| PHR1245 | Vanillin | 1 g |
| 15971 | N-Vanillylnonanamide | 50 mg, 100 mg |
| 94882 | (1S)-(-)-Verbenone | 1 mL, 5 mL |
| 47844 | Xylitol | 1 g |
| 47253 | D-(+)-Xylose | 500 mg |

*Analytical reference materials. Our analytical reference materials are certified by qNMR. The qNMR value is measured under ISO/IEC 17025 accreditation and the result is traceable to NIST standard reference materials.

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