



Organoleptic Characteristics of Flavor Materials

Gerard Mosciano

Gerard Mosciano is joined by Judith Michalski, chief flavorist, Edlong Flavors; Carl Holmgren, consulting flavor chemist; Douglas Young, principal flavorist, Symrise; and William Jaggard, chief flavorist, Bell Flavors, in the organoleptic evaluations presented here.

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Suppliers of most materials found in this report can be located in *Allured's Flavor & Fragrance Materials*, published by Allured Publishing Corporation, 362 South Schmale Road, Carol Stream, IL 60188-2787 USA, telephone 630-653-2155; fax 630-653-2192, www.perfumerflavorist.com.

Absolute Boronia Flowers (HD 3040)

Source: Lionel Hitchen (Essential Oils) Ltd.

FEMA# 2167, CAS# 91771-36-7, Natural

Odor: @ 1.0 percent. Sweet, floral, fruity with terpy citrus nuances, tropical fruity depth and body with peach and apricot nuances.

Taste: @ 5 PPM. Slightly herbal, fruit pulpy with sweet tea and hay notes, and citrus and tropical nuances.

Possible applications: Tea, citrus and tropical nuances, pulpy nuances for apricot and peach.

► **Lionel Hitchen (Essential Oils) Ltd.;** tel: 44-(0)-1962-760815; www.lheo.co.uk

Absolute Boronia Leaf (HD 3041)

Source: Lionel Hitchen (Essential Oils) Ltd.

FEMA# 2167, CAS# 91771-36-7, Natural

Odor: @ 1.0 percent. Green, woody, hay and tealike with tropical, fruity and herbal nuances.

Taste: @ 5 PPM. Woody, fruity strawberry and floral rosy with a walnut nuance and hints of some monastic cordial nuances.

Possible applications: Strawberry, berry, tropical nuances, tea and tobacco.

► **Lionel Hitchen (Essential Oils) Ltd.;** tel: 44-(0)-1962-760815; www.lheo.co.uk

Brouts Absolute (Orange Blossom)

Source: Robertet

Natural

Odor: @ 1.0 percent. Woody, floral, citrus petitgrain-like with a pleasant neroli nuance.

Taste: @ 5 PPM. Citrus floral, fresh green, woody with an orange neroli note.

Possible applications: Grapefruit, orange, citrus notes in general, blueberry, grape and currants.

► **Robertet;** tel: 201-337-7100; www.robertet.com

Immortelle Absolute (Helicrysum)

Source: Citrus & Allied

FEMA# 2592, CAS# 8023-95-8, Natural

Odor: @ 1.0 percent. Sweet, dried fruity, slightly smoky with a woody tropical and jammy resinous phenolic pipe tobacco nuance. It also has sherry and port winelike notes.

Taste: @ 5 PPM. Good fruity depth, slightly citrus with an herbal horehound and smoky nuance.

Possible applications: Latakia tobacco, berry and tropical fruit nuances, herbal notes, dried fruit and honey nuances.

► **Citrus & Allied;** tel: 718-343-0030; www.citrusandallied.com

Massoia Bark (Super Soluble)

Source: Thwaites, Inc.

FEMA# 3747, CAS# 85085-26-3, Natural

Odor: @ 1.0 percent. Fruity, ripe pineapple, woody with a coconut background.

Taste: @ 5 PPM. Piña coladalike pineapple, woody on impact with a lingering



fatty coconut and woody nuance.

Possible applications: Pineapple, coconut, tropical blends, vanilla and mint nuances.

► **Thwaites, Inc.;** tel: 781-925-3660;
www.thwaitesinc.com

Mate Absolute, Colorless

Source: Charabot

CAS# 68916-96-1, Natural

Odor: @ 1.0 percent. Tobacco, hay, leafy tea with leather, woody and dried fruit notes.

Taste: @ 5 PPM. Tobacco leafy, hay and tealike with brown dried fruit and spicy nuances.

Possible applications: Tobacco, tea, tomato nuances, prune, fig and pepper notes.

Charabot; tel: 845-398-1200; www.charabot.com

Mint Extract Calchauffat

Source: Danisco

Natural

Odor: @ 1.0 percent. Green, warm mentholic, leafy with a slightly cooling spearmint herbal nuance.

Taste: @ 10 PPM. Cooling, smooth green, minty, leafy and herbal, spearmintlike with confection nuances.

Possible applications: Mint boosters for confections, oral-care products, fruit nuances and schnapps top notes.

► **Danisco;** tel: 201-444-9821; www.danisco.com

cis-3-Octenyl Propionate (synonym: Pearlate)

Source: Bedoukian Research Inc.

FEMA# 4180, CAS# 94134-03-9, Artificial

Odor: @ 1.0 percent. Sweet, green fatty and waxy, pear skin and melon notes with oily nuances.

Taste: @ 2.5 PPM. Slightly dry and waxy, fresh green, fruity pear skin.

Possible applications: Pear, melon, banana, pineapple, strawberry, apple, green tea, fruit punches and fruit cocktail juice flavors.

► **Bedoukian Research Inc.;** tel: 203-830-4000;
www.bedoukian.com

Oil of Lemongrass

Source: SAFC

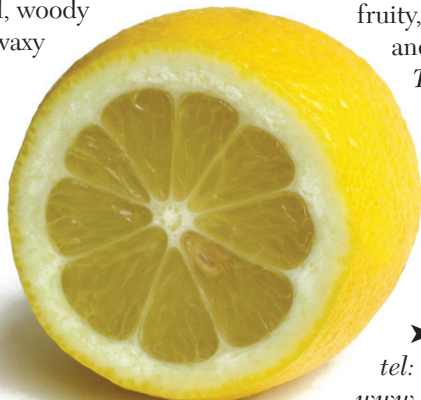
FEMA# 2624, CAS# 8007-02-1

Odor: @ 1.0 percent. Refreshing citrus, dirty lemon with a hint of lime, citral, woody terpy with a slightly aldehydic waxy nuance.

Taste: @ 10 PPM. Citrus, citral-like, terpy and woody with a waxy lemon, floral herbaceous nuance.

Possible applications: Lemon, lime, citrus punch notes, novel lemon nuances.

► **SAFC;**
tel: 800-244-1173;
www.sigmaaldrich.com



Olive Leaf Extract

Source: Moore Ingredients

Natural

Odor: @ 100 percent. Sweet, brown cooked and dried fruity, slightly davanalike with molasses and fenugreek nuances.

Taste: @ 0.05 percent. Cooked and dried fruity, prune, strawberry, apricot, sun-dried tomato, peach, rum, as well as molasses and caramel.

Possible applications: Tea, plum, prune, strawberry, apricot, peach, rum, molasses and caramel.

► **Moore Ingredients;** tel: 513-881-7144;
www.moorelab.com

Paradiff (synonym: Grapefruit Mercaptan, Menthene-8-thiol)

Source: IFF

FEMA# 3700,

CAS# 71159-90-5, Natural

Natural occurrence:

Grapefruit juice.

Odor: @ 0.01 percent.

Grapefruit, sulfurous catty, citrus, thiomenthone, slightly cooling, green rindy, juicy with nootkatone nuances.

Taste: @ 0.01 PPM. Bitter, waxy, citrus, clean grapefruit, fresh-squeezed juicy with nootkatone and orange juice nuances.

Possible applications: Grapefruit juice, orange juice, passion fruit, mango, peach and other sulfurous top-noted tropical fruits.

► **IFF;** tel: 212-765-5500; www.iff.com



Passionate Melon

Source: Natural Advantage

Odor: @ 1.0 percent. Sulfurous overripe fruity, durian tropical fruity, savory and herbal nuances.

Taste: @ 0.1 PPM. Sulfurous, tropical pulpy fruity with savory, brothy methional-like nuances.

Possible applications: Guava, mango pulp, musk melon, durian and some savory nuances.

► **Natural Advantage;**
tel: 732-274-9683;
www.natural-advantage.net



1-Phenyl-1,2-Propanedione

Source: Charkit/Oxford Chemical
FEMA# 3226, CAS# 579-07-7,
Nature identical

Natural occurrence: Baked potato,
butter and coffee.

Odor: @ 1.0 percent. Sweet, buttery
cultured creamy and dairylike
with a chemical walnut hull-like
nuance.

Taste: @ 10 PPM. Cultured creamy
and dairylike with a slightly nutty nuance.

Possible applications: Butter, cultured dairy
notes, butter, nut and coffee flavors.

► **Charkit/Oxford Chemical;** *tel:* 44-
1429-863555; *www.oxfordchemicals.com*

Phenylethyl Formate

Source: SAFC

FEMA# 2864, CAS# 104-62-1, Nature
identical

Natural occurrence: Tobacco, barley,
coffee, cranberry, grape, brandy,
raspberry, rum, tea and whiskey.

Odor: @ 1.0 percent. Musty, earthy cocoa,
slightly sweet honey, yeasty and bready
with fermented fruit and tropical
nuances.

Taste: @ 10 PPM. Musty cocoa, honey, yeasty grain,
alcoholic with fruity and tropical nuances.

Possible applications: Grain and yeast flavors,
alcoholic notes, bread, banana, tropical nuances,
honey, cocoa, plum and pear.

► **SAFC;** *tel:* 800-244-1173; *www.sigmaaldrich.com*

alpha-Pinene P&F

Source: Penta Manufacturing Co.

FEMA# 2902, CAS# 80-56-8, Natural

Natural occurrence: Apple, orange, lemon, lime,
grapefruit, mandarin, tangerine oils and juices,
guava, blackberry, strawberry, various spice and
mint essential oils.

Odor: @ 1.0 percent. Terpy citrus and spicy, woody
pine and turpentinelike with a slight cooling
camphoraceous nutmeglike nuance, a fresh herbal
lift and a tropical fruit top note.

Taste: @ 10 PPM. Intense woody, piney and terpylike
with a green, camphoraceous and turpentine note
and with herbal, spicy and slightly tropical mango
nuances.

Possible applications: Thyme, nutmeg, mango and
other tropical fruits, citrus lift, mint impact, black
pepper and other essential oil reconstructions.

► **Penta Manufacturing Co.;** *tel:* 973-740-2300;
www.pentamfg.com

Sesame Isolate Roasted, Water Soluble AF0510920

Source: Flavor Materials International

Natural

Odor: @ 100 percent. Roasted nutty, sesame, peanut, hazelnutlike with some ashy coffee nuances.

Taste: @ 0.1 percent. Roasted nutty, ashy coffee, sesame with a fatty, oily peanutlike note.

Possible applications: Savory nuances, roasted notes for peanut, coffee, hazelnut and other nuts, as well as water-soluble fired notes.

► **Flavor Materials International;** tel: 732-499-9700; www.flavormaterials.com

Souchong Tea Extract

Source: Biolandes

Natural

Odor: @ 1.0 percent. Sweet vanilla, spicy, creamy, woody with a marshmallow undertone.

Taste: @ 10 PPM. Stale or scalded milk and creamlike with a sweet powdery vanilla aftertaste.

Possible applications: Vanilla, cream nuances, tea blenders.

► **Biolandes;** tel: 201-325-8733; www.biolandes.com

Styrallyl Acetate (synonym: Methyl Phenyl Carbonyl Acetate)

Source: IFF

Natural

Natural occurrence:

Cloves, avocado, gardenia flowers.

Odor: @ 1.0 percent.

Sweet fruity, tropical mango, woody, musty, honeylike with floral powdery nuances.

Taste: @ 5 PPM. Fruity raisin, berry, pear, woody, tropical and citrus with a green vegetative nuance.

Possible applications: Fig, raisin, honey, raspberry, strawberry, grape, apricot, spice nuances, melon, grapefruit, fragrance nuances, mango body, citrus, peach.

► **IFF;** tel: 212-765-5500; www.iff.com



T,T, (E,E)-3,5-Octadien-2-one 1.0 percent

Source: Charkit/Oxford Chemical

FEMA# 4008, CAS# 30086-02-3, Nature identical

Natural occurrence: Fish, oysters, green tea, asparagus, black tea, soybeans, krill and shrimp.

Odor: @ 1.0 percent. Sweet, waxy, cooked creamy, slightly toasted coconut, vanillalike and milky with cheesy nuances.

Taste: @ 1.0 PPM. Sweet, waxy, creamy, milky, toasted coconut with vanilla and dairy nuances.

Possible applications: Condensed milk, dairy background nuances, fresh notes for tea, coconut and cereal nuances.

► **Charkit/Oxford Chemical;** tel: 44-1429-863555; www.oxfordchemicals.com 