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Leverage Yourself with **Lychee**

Asian flavors like **Lychee** are growing in popularity on menus in specialty iced tea beverages. Lychee martinis were also cited as a recent trendy alcohol concoction in Beveragedaily.com’s “State of the industry: What’s to come for alcohol in 2019” article. With a sweet and tart flavor profile, **Lychee** continues to appear in beverages and is emerging in desserts.

- **DoseBiome** has expanded its Qii range of oral health care beverages and **Lychee Tea** is one of three new flavors.
- **Buddy Tea House** recently opened in San Jose, CA and offers a variety of teas including boba milk, fruit milk and cream styles, in flavors like **Lychee Green Tea**, **Piña Colada**, and **Mango Pudding**.
- **Petal** is a sparkling beverage that highlights florals, fruits, and herbs. **Lychee Rose** is one of six blends available.
- **Meet Fresh**, a popular Taiwanese dessert chain, opened its first New York City shop in 2018. They offer a lengthy menu and serve six **Lychee Jelly Teas**.
- Inspired by Asian flavors and the popularity of green tea, **Lipton** released **Lipton Ice Green Tea** in **Jasmine Lychee** and **Mango Pandan** flavors in Singapore.
- In Malaysia, **Coca-Cola** and **Mmcineplexes** have partnered to debut the first **Coca-Cola Freestyle** fountain dispensing machines in the country, offering more than 50 beverage options including new **Lychee** and **Mango** flavors.
- **Mood Ring Bar** in Brooklyn, NY features a variety of cocktail shots such as the “**Mystery of Luv**,” which blends vodka, lime and lychee liqueur.
- **Häagen-Dazs** introduced a limited edition **Fruit and Flowers** ice cream line and **Lychee Raspberry Rose** was one of three flavors.

### Apritone presented in **Lychee Flavored Water**

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<tr>
<td>Apritone (BRI 410)</td>
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Apritone

Product Information
BRI No. 410
FEMA No. 3829
Flavis No. 07.257
Chemical Name: Geranyl Cyclopentanone

Specifications & Technical Information
Chemical Formula: C15H24O
Molecular Weight: 220.35
Minimum Purity: 96.5% (sum of isomers)
Main Isomer: 50.0% min.
Secondary Isomer: 30.0% - 50.0%
Flash Point: 282 deg F (CC)
Nature Identical: No
Kosher: Yes
Halal: Yes

Packaging & Storage
Additive: Synthetic alpha tocopherol @ 0.10%
Shelf Life: 48 months from manufacture date

Odor Description: Tenacious, ripe, fleshy apricot notes with peach and jasmine undertones. Sweet and reminiscent of cooked fruit.

Taste Description: Smooth, pulpy apricot with a sweet pit fruit character.

Flavor Use: A luscious, juicy, natural fruit character excellent for enhancing pit fruit flavors, especially apricot, peach, plum, cherry and lychee.

Recommended Use Level: 1.0 - 10.0 PPM

Global Flavor Checklist

<table>
<thead>
<tr>
<th>FEMA</th>
<th>Yes</th>
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<tbody>
<tr>
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</tbody>
</table>

Suggested Applications

Notes

Exotic Fruit

Fresh Fruit

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The Possibilities of Pineapple

A symbol of hospitality, Pineapple represents “welcome.” Pineapple is a universally liked, welcoming flavor used in a variety of applications such as beverage, dairy, and candy.

- Vita Coco introduced a collection of sparkling coconut waters in four flavors and Pineapple Passionfruit is one of them, while Tropicana Coco Blends released Pineapple with Coconut Water.
- Starbucks’ Evolution Fresh introduced a new Kombucha line that comes in six flavors and Mango Pineapple and Turmeric Pineapple Coconut are two flavors featured.
- Pure Leaf recently added Organic Hibiscus Tea Passionfruit & Pineapple to its lineup.
- Shanghai-based chain Happy Lemon opened a new shop in San Jose, CA and offers beverages in their signature bitter citrus flavors as well as Pineapple and Mango flavors.
- Simply Smoothie is Coca-Cola’s new range of ready-to-drink smoothies and Mango Pineapple is one of three varieties.
- Franklin & Sons’ launched a collection of Infused Sodas that offer “the same complex taste and flavour profiles of cocktails” without the alcohol. Exotic Pineapple and Aromatic Cardamom with Cracked Cubeb Pepper is one of three sodas offered.
- Wallaby added Aussie Crème Yogurts, which are chef-inspired to its range and Caramelized Pineapple is one of three flavors.
- UK fruit crisp brand Nim’s debuted “Edible Teas” made from dried fruit and vegetables. Pineapple and Kiwi, and Pineapple, Beetroot and Parsnip are two out of three flavors offered.
- Ring Pop Gummy Gems is a new product that features a 2-in-1 sweet and sour flavor combination. Tropical Pineapple Orange is one of four flavor combinations available.

### Tropical Dienoate presented in Pineapple Flavored Water

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<th>Ingredient</th>
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<tr>
<td>Tropical Dienoate (BRI 536)</td>
<td>1.5 PPM</td>
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</table>
**Tropical Dienoate**

**Product Information**

BRI No. 536  
FEMA No. 3682 and 3344  
Flavis No. 09.290 and 09.265  
Chemical Name: Ethyl 4,7-Octadienoate and Ethyl Z-4-Octenoate

**Specifications & Technical Information**

Chemical Formula: Mixture  
Molecular Weight: Mixture  
Minimum Purity: 96.0% (sum of isomers)  
Main Isomer: 70.0% min.  
Secondary Isomer: 15.0% - 30.0%  
Flash Point: 167 deg F (CC)  
Nature Identical: Yes  
Kosher: Yes  
Halal: Yes

**Packaging & Storage**

Additive: None  
Shelf Life: 18 months from manufacture date

**Odor Description:** An impactful, sweet, ethereal, juicy pineapple with shades of pear, mango and passion fruit.

**Taste Description:** Powerful, ripe, juicy characteristics of fresh pineapple.

**Flavor Use:** Excellent for pineapple notes. Also great for brightening and enhancing the ripe, juicy aspects of a variety of tropical fruit flavors, especially mango and passion fruit.

**Recommended Use Level:** 1.0 - 10.0 PPM

**Global Flavor Checklist**

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**Suggested Applications**

- Exotic Fruit
- Fresh Fruit

**Notes**

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Move Mountains with Mango

Mango flavors have seen an increase of 240% during the last ten years in new product development, according to Innova Market Insights. A versatile and popular tropical beverage flavor, Mango is used in a variety of Ready-To-Drink products ranging from water to tea to non-dairy alternatives.

- **Blossom Water**, the brand known for their fruit and flower-infused spring water, added Mango Hibiscus to its lineup.
- **Perrier and Juice** is a new beverage, which features the brand’s signature mineral water and a touch of sugar. Pineapple & Mango is one of the brand’s three flavors.
- **Mango** is one of four varieties of new Vive Hard Seltzer made with pure Kentucky artisan water while Pura Still is a spiked still water formulated with coconut water and available in Mango, Mandarin Orange and Blackberry flavors.
- **Honest Tea** celebrated its 20th anniversary with a redesign of its glass bottles and introduced new flavors including Mango Maté Black Tea and Golden Turmeric Pineapple Herbal Tea.
- **Pure Leaf** released a new Herbal Iced Tea range brewed with hibiscus and Mango Hibiscus is one of the three varieties.
- **Tropical Mango** is one of three flavors in Wonder Drink’s new Prebiotic Kombucha line while Mystic Mango is one of six fruity flavors in GT’s Living Foods Enlightened Synergy Kombucha line.
- **Big Easy Blends** by Welch’s is a new dairy free, ready to drink frozen smoothies line with a Peach Mango flavor.
- **Chobani** launched a new line of coconut-based non-dairy products and Mango is one of four drink flavors offered.
- **Koia**, a plant-based protein beverage, launched Fruit Infusions and Mango Crème is one of three varieties available.

### Guavanate / Ethyl 2,4-Decadienoate presented in Mango Flavored Water

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Guavanate

Product Information

- BRI No. 493
- FEMA No. 4165
- Flavis No. 09.934
- Chemical Name: Methyl Cis-5-Octenoate

Specifications & Technical Information

- Chemical Formula: C9H16O2
- Molecular Weight: 156.22
- Minimum Purity: 98.0% (sum of isomers)
- Main Isomer: 97.0% min. (cis)
- Secondary Isomer: 1.0% - 2.9% (trans)
- Flash Point: 162 deg F (CC)
- Nature Identical: Yes
- Kosher: Yes
- Halal: Yes

Packaging & Storage

- Additive: None
- Shelf Life: 36 months from manufacture date

Odor Description: A sweet, exotic tropical fruit odor accompanied by aromatic, slightly woody impressions with a creamy dry-down.

Taste Description: Exotic, musty, characteristic of pink guava, as well as creamy notes of mango.

Flavor Use: Excellent for adding a natural, exotic character to a variety of tropical formulations, such as guava, mango, longan, passion fruit, pineapple, and more. Can also be used to enhance creamy notes of coconut and sweet dairy flavors.

Recommended Use Level: 1.0 - 10.0 PPM

Global Flavor Checklist

- FEMA: Yes
- CHINA: Yes
- EUROPEAN UNION: Yes

Suggested Applications

- Dairy
- Exotic Fruit
- Fresh Fruit

Notes

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Ethyl 2,4-Decadienoate

**Product Information**

- **BRI No.**: 433
- **FEMA No.**: 3148
- **Flavis No.**: 09.260
- **Chemical Name**: Ethyl (2E,4Z)-Decadienoate

**Specifications & Technical Information**

- **Chemical Formula**: C12H20O2
- **Molecular Weight**: 196.28
- **Minimum Purity**: 98.0% (sum of isomers)
- **Main Isomer**: 92.0% min. (e,z)
- **Secondary Isomer**: 0.1% - 8.0% (isomers)
- **Flash Point**: 243 deg F (CC)
- **Nature Identical**: Yes
- **Kosher**: Yes
- **Halal**: Yes

**Packaging & Storage**

- **Additive**: Synthetic alpha tocopherol @ 0.10%
- **Shelf Life**: 30 months from manufacture date

**Odor Description**: An enticing, green, characteristic odor of a Bartlett pear combined with crisp and clean tropical fruit nuances reminiscent of passion fruit and kiwi.

**Taste Description**: Juicy, green, waxy Bartlett pear with subtle hints of melon and tropical fruits.

**Flavor Use**: Excellent for pear and apple applications. Also applicable in various tropical fruit flavors, such as pineapple and mango - adding clean, juicy and fleshy notes to formulations.

**Recommended Use Level**: 1.0 - 10.0 PPM

**Global Flavor Checklist**

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**Suggested Applications**

- Cucumber & Melon
- Exotic Fruit
- Fresh Fruit

**Notes**

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Captivate Your Senses with Coconut

New Nutrition Business reported a 318% increase in the number of products launched with Coconut from 2010 to 2016 - appearing in a various applications including candy, cookies, cereal, and dairy. According to Beverage Industry’s New Product Development Outlook 2018 survey, 47% of respondents used Coconut in their new product formulas.

- **Coconut Watermelon** is one of three flavors in Campbell Soup Company’s new V8+Hydrate line, which is a plant-based beverage formulated with sweet potato juice.
- **Hello Beverages LLC** launched Hellowater Mini in five flavors with *Pineapple Coconut* being one.
- **Coconut Cartel** is a new premium rum, which blends aged Guatemalan dark rum and coconut water.
- **Mooala** introduced an Organic Coconut Oatmilk that blends toasted oats with coconut cream and a hint of cinnamon.
- **M&M’S** launched three new, limited-edition **M&M’S Peanut** flavors for its new Flavor Vote campaign. **Thai Coconut Peanut** is one of the flavors, which is described as “a savory sweet taste inspired by the tropics of Thailand.”
- **Dewey’s Bakery** launched the Tiki Bar Collection in four cookie flavors inspired by beach-front cocktails. **Piña Colada** highlights coconut and pineapple flavors while the **Bahama Mama** blends pineapple, coconut and tangerine.
- **Coconut Crunch** is one of three products in Kellogg’s new HI! Happy Inside Cereal line. In addition, **Kellogg’s** recently launched Joyböl, a new smoothie bowl brand with a shelf-stable cup of ingredients in **Mango Coconut Chia** as one of the flavors.
- **YQ by Yoplait™** made with ultra-filtered milk was recently introduced and includes a **Coconut** flavored yogurt.

### 9-Decenoic Acid & Guavanate

*presented in Coconut Flavored Milk*

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<td><strong>9-Decenoic Acid (BRI 891)</strong></td>
<td>20.0 PPM</td>
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9-Decenoic Acid

Product Information
BRI No. 891
FEMA No. 3660
Flavis No. 08.065
Chemical Name: 9-Decenoic Acid

Specifications & Technical Information
Chemical Formula: C10H18O2
Molecular Weight: 170.25
Minimum Purity: 95.0%
Main Isomer: Not available
Secondary Isomer: Not available
Flash Point: 230 deg F (CC)
Nature Identical: Yes
Kosher: Yes
Halal: Yes

Packaging & Storage
Additive: Synthetic alpha tocopherol @ 0.10%
Shelf Life: 48 months from manufacture date

Odor Description: A distinctive waxy, milky character with a slight hint of orange peel and mild fruity nuances, such as kiwi.

Taste Description: Waxy, milky, fatty, creamy.

Flavor Use: Dairy-type applications, particularly useful for adding fatty and creamy notes to milk and creamers as well as chocolate and vanilla flavors. Great for butter and imparting waxy notes to cheese flavors. Can also be used as a fat modulator- adding a fatty mouth-feel back into low-fat and dairy alternative food and beverages.

Recommended Use Level: 1.0 - 10.0 PPM

Global Flavor Checklist

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Suggested Applications

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Set Your Sight on **Strawberry**

**Strawberry** is a well-liked flavor incorporated into a wide range of products. Beverages, in particular have been a hot bed of activity with a variety of strawberry flavor combinations popping up.

- **Strawberries & Cream** is one of six new beverage flavors introduced to the fitness brand, CELSIUS’ Sparkling line.
- **Odwalla** added **Strawberry Honey Lemon** to its portfolio while **Simply Beverages** released a **Lemonade with Strawberry** variant.
- **Wendy’s** launched the **Strawberry Passion FruiTea Chiller** as part of its limited-time **Summer Drinks** menu.
- For alcoholic beverages, **MillerCoors’** hard cider brand, **Redd’s**, introduced **Redd’s Wicked Strawberry Kiwi** as a new flavor.

In addition to beverage applications, **Strawberry** has continued to gain traction across a variety of food applications, especially in the dairy and candy departments.

- In the dairy isle, **LALA** added **Healthies Curb** and **LALA 100 Calorie Yogurt Smoothies** to its portfolio in **Wild Strawberry**.
- In the UK, the **Collective** released kefir **Super Yoghurts** for kids in two flavors **Strawberry** and **Peach & Mango**.
- **Dreaming Cow Creamery** released **LUSH Blends High Quality Grass-fed Yogurt** drinks in four flavors with **Strawberry, Raspberry, Purple Carrot & Beet** as one of the variants.
- **Morinaga America** launched a limited-edition **Hi-Chew Spring Mix**, which offered **Strawberry** as one of the three flavors.
- As part of the “**Flavors of America**” collection, **Hershey** debuted a **Strawberry-Flavored Kit Kat** and **M&M’S** extended their portfolio with the **Limited Edition Strawberry Nut** release.

### Methyl 3-Nonenoate (High Trans) presented in Strawberry Flavored Water

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Methyl 3-Nonenoate (High Trans)

Product Information
BRI No. 513
FEMA No. 3710
Flavis No. 09.298
Chemical Name: Methyl E-3-Nonenoate

Specifications & Technical Information
Chemical Formula: C10H18O2
Molecular Weight: 170.25
Minimum Purity: 98.0% (sum of isomers)
Main Isomer: 97.0% min. (trans)
Secondary Isomer: Not applicable
Flash Point: 195 deg F (CC)
Nature Identical: Yes
Kosher: Yes
Halal: Yes

Packaging & Storage
Additive: Synthetic alpha tocopherol @ 0.10%
Shelf Life: 48 months from manufacture date

Odor Description: A fruity, green, waxy pear-like aroma with wine and brandy notes on dry-down.
Taste Description: Sweet, green, fresh apple, notes of melon.
Flavor Use: Excellent in red fruit applications, especially strawberry. Also great for deepening fresh, fatty, green notes in cucumber, watermelon and honeydew flavors. May also be useful in apple, pear and tropical varieties.
Recommended Use Level: 1.0 - 10.0 PPM

Global Flavor Checklist

<table>
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<tr>
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Suggested Applications

Odor Description: A fruity, green, waxy pear-like aroma with wine and brandy notes on dry-down.
Taste Description: Sweet, green, fresh apple, notes of melon.
Flavor Use: Excellent in red fruit applications, especially strawberry. Also great for deepening fresh, fatty, green notes in cucumber, watermelon and honeydew flavors. May also be useful in apple, pear and tropical varieties.
Recommended Use Level: 1.0 - 10.0 PPM

Notes

Suggested Applications

Cucumber & Melon
Exotic Fruit
Fresh Fruit

Notes

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Go For the Gold with **Grapefruit**

With a semi-sweet somewhat bitter flavor, **Grapefruit** is an emerging trend in the food industry, and is forecast to be one of the most popular citrus flavors by 2019. A sophisticated and supremely versatile flavor, **Grapefruit** is appearing in everything from beverages and snacks to even health and beauty supplements.

- Bai Bubble’s sparkling antioxidant infusion line features **Gimbi Pink Grapefruit** as one of seven flavors offered.
- **Grapefruit Honey** is a new addition to the Steaz Organic Iced Green Tea beverage collection.
- Red Bull introduced their limited time **Summer Edition in Grapefruit Twist** while Hiball Energy released Alta Pala Sparkling Waters in four flavors with **Grapefruit** being one.
- **Grapefruit** is a new flavor in Simple Truth’s Kombucha line.
- For alcohol, Deep Eddy Vodka added **Ruby Red** to its range while Eight Degrees Vodka released a **Grapefruit** flavored variant.
- **Pink Grapefruit** is one of two new citrus flavors added to Danone’s Activia Yogurt collection.
- Del Monte Fruit Refreshers, an adult inspired fruit cup, introduced **Red Grapefruit in Guava Fruit Water** to its portfolio.
- **Hi-Chew Sours** are chewy candies offered in a Citrus Mix with **Grapefruit** being one of three flavors.
- **Project 7 Gourmet Gum**, a Target-Brand can be found in a refreshing **Grapefruit Melon** flavor.
- In the health department, Olly Nutrition offers **Grapefruit Glam** as a flavor in their Vitamin Gummies collection while Honey Stinger offers **Grapefruit** as one of four citrus flavors in their Organic Energy Chews line.

### Ingredient Control Cup A On Blotter

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**Product Information**

BRI No. 369  
FEMA No. 4898  
Flavis No. Not available  
Chemical Name: Trans-5-Octenal

**Specifications & Technical Information**

Chemical Formula: C₈H₁₄O  
Molecular Weight: 126.20  
Minimum Purity: 98.0% (sum of isomers)  
Main Isomer: 95.0% min.  
Secondary Isomer: 0.1% - 5.0%  
Flash Point: 133 deg F (CC)  
Nature Identical: Yes  
Kosher: Yes  
Halal: Yes

**Packaging & Storage**

Additive: Synthetic alpha tocopherol @ 0.50%  
Shelf Life: 36 months from manufacture date

**Odor Description:** A bright citrus peel odor with strong grapefruit characteristics.

**Taste Description:** Very good grapefruit character with other waxy citrus peel notes.

**Flavor Use:** An authentic, zesty grapefruit character. Excellent for citrus flavors - working well to enhance fresh, juicy pulpy notes, especially those characteristic of grapefruit and pomelo.

**Recommended Use Level:** 0.1 - 5.0 PPM

**Global Flavor Checklist**

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</table>

**Suggested Applications**

- Citrus
- Exotic Fruit

**Notes**

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__________________________________________________________________________
Warm Up with Walnut

According to Mintel, Walnut flavored food and beverages have increased 101% from 2012-2016. Due to its versatility, Walnuts have proven to pair well in a variety of applications from sweet to spicy to savory, making its flavor possibilities endless.

- **LUNA**, an affiliated brand of Clif Bar & Company, added two walnut variants to their protein bar collection: Caramel Walnut Brownie and Chocolate Walnut Fudge.

- **Stonewall Kitchens** introduced a Fruit Butter line with Fig & Walnut as a flavor while Lucini Italia Co. released a Fig & Walnut Balsamic Vinaigrette to their portfolio.

- **Bear Naked**, a Kellogg-Brand offers a Banana Nut Granola with honey, banana chips, coconut, almonds and walnuts.

- British celebrity chef and restaurateur, Jamie Oliver, released a Walnut & Sweet Pepper Pesto under his Italian Store Cupboard product line.

- **DeLallo** added Cranberry Walnut Biscotti’s to their cookie selection, describing them as being a “buttery bliss of a cookie.”

Like Walnuts, Maple glides gracefully from sweet to savory, making them a match made in heaven. When these flavors are combined they create a flavor bridge that pleases most palates.

- **Walden Farms** introduced its newest flavor Maple Walnut to their pancake syrup lineup.

- **Louisiana Grills** released a Maple Walnut Rub to their spices and rubs selection.

- In beverages, particularly coffee Maple Walnut flavors have become quite popular that brands, such as Green Mountain Coffee, New England Coffee, Java Coffee & Tea, Little’s and Christopher Bean all have their own variants.

### Nuezate presented in Pancake Syrup

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Control</th>
<th>Cup A</th>
<th>On Blotter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plain (Without BRI Specialties)</td>
<td>W/O</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nuezate (BRI 728)</td>
<td>0.5 PPM</td>
<td>0.5%</td>
<td></td>
</tr>
</tbody>
</table>
Nuezate

Product Information
BRI No. 728
FEMA No. 4903
Flavis No. Not available
Chemical Name: Ethyl 3-Methyl-2-Oxo-Pentanoate

Specifications & Technical Information
Chemical Formula: C₈H₁₄O₃
Molecular Weight: 158.20
Minimum Purity: 95.0% min.
Alcohol Isomer 1: 2.0% max.
Alcohol Isomer 2: 2.0% max.
Flash Point: 149 deg F (CC)
Nature Identical: No
Kosher: Yes
Halal: Yes

Odor Description: An impressively, powerful black walnut, woody character, accompanied by fruity nuances and a subtle herbaceous.

Taste Description: Characteristic, fresh notes of walnut, dry, woody.

Flavor Use: Great for adding earthy notes typical of many tree nuts to sweet and roasted applications. Excellent for enhancing brown and nutty flavors, particularly maple and walnut. Can also add an attractive depth and interesting effect to various fruit and spirit flavors, such as blueberry, strawberry, rum and whiskey.

Recommended Use Level: 0.1 - 5.0 PPM

Global Flavor Checklist

<table>
<thead>
<tr>
<th>FEMA</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINA</td>
<td>No</td>
</tr>
<tr>
<td>EUROPEAN UNION</td>
<td>No</td>
</tr>
</tbody>
</table>

Suggested Applications
Dairy  Fresh Fruit  Roasted  Sweet

Notes

Packaging & Storage
Additive: None
Shelf Life: 36 months from manufacture date
Completely Hazel(Nuts) for Chocolate

Hazelnut and Chocolate are a well-liked flavor combination. Separately, many would consider these ingredients to be timeless classics, but together this iconic duo is making its way to the top of the flavor charts and is sure to please.

- Ferrero has had immeasurable success with Nutella Hazelnut Spread and Ferrero Rocher Fine Hazelnut Chocolate.
- In 1860 Pirouline founded the Crème de Rolled Wafer and are still sold today. Chocolate Hazelnut is one of four flavors offered.
- Jif introduced a new line of Hazelnut Spreads in two flavors, Cookies n’ Cream and Chocolate Cheesecake.
- After much success Jif added Granola Bar’s to their portfolio with Hazelnut Chocolate as one of five flavors.
- Pepperidge Farm added Pirouette’s, a crème filled wafer in a Chocolate Hazelnut flavor to their cookie collection.
- Oreo, a well known Nabisco-Brand released a limited edition Chocolate Hazelnut cookie flavor.
- Clif Bar & Company added a Nut Butter Filled product to their portfolio, with Chocolate Hazelnut Butter as one of five flavors.
- Clif Bar & Company’s affiliated brand, LUNA also added a Dark Chocolate Hazelnut flavor to their 5G Sugar nutrition bar collection.
- Pacific Foods added Hazelnut Beverages to their non-dairy beverage line, with Hazelnut Chocolate as one of the flavors.
- Stash Tea launched a Chocolate Hazelnut variant to their Black Tea collection.

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Plain (Without BRI Specialties)</td>
<td>W/O</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazelnut Furan FCC (BRI 858)</td>
<td>10.0 PPM</td>
<td>0.05%</td>
<td></td>
</tr>
</tbody>
</table>
Hazelnut Furan FCC

Product Information
BRI No. 858
FEMA No. 3391
Flavis No. 13.066
Chemical Name: 3-Acetyl-2,5-Dimethyl Furan

Specifications & Technical Information
Chemical Formula: C8H10O2
Molecular Weight: 138.16
Minimum Purity: 99.0%
Main Isomer: Not applicable
Secondary Isomer: Not applicable
Flash Point: 180 deg F (CC)
Nature Identical: Yes
Kosher: Yes
Halal: Yes

Packaging & Storage
Additive: None
Shelf Life: 12 months from manufacture date

Odor Description: A sweet, nutty hazelnut odor with earthy undertones.

Taste Description: Sweet, nutty, specifically roasted hazelnut.

Flavor Use: Excellent for sweet nut flavors, especially hazelnut, almond, and pistachio. Also works well at enhancing roasted nut notes in a variety of brown flavors, including chocolate, caramel, coffee, in addition to some savory applications.

Recommended Use Level: 0.2 - 20.0 PPM

Global Flavor Checklist

<table>
<thead>
<tr>
<th></th>
<th>FEMA</th>
<th>CHINA</th>
<th>EUROPEAN UNION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Suggested Applications

Notes

Dairy
Roasted
Savory
Sweet
<table>
<thead>
<tr>
<th>BRI #</th>
<th>FEMA #</th>
<th>Product Name</th>
<th>Ingredient Character</th>
<th>Blotter</th>
<th>EU</th>
<th>CHINA</th>
</tr>
</thead>
<tbody>
<tr>
<td>284MCT</td>
<td>4005</td>
<td>12-Methyltridecanal (10% in Medium Chain Triglycerides)</td>
<td>Waxy, fatty, grilled meat notes with a hint of fresh citrus and cilantro. Great for enhancing savory applications.</td>
<td>10.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>332</td>
<td>3377</td>
<td>1,2-E,Nonadienal FCC</td>
<td>Excellent for green cucumber, melon, and strawberry applications. Also useful in savory and seafood.</td>
<td>0.1%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>335</td>
<td>2780</td>
<td>1,2-E,Nonadienol FCC</td>
<td>A powerful green, cucumber and melon note. Excellent for apple, cucumber, melon, and mushroom flavors.</td>
<td>1.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>337</td>
<td>3465</td>
<td>cis-6-Nonenal FCC</td>
<td>Imparts fresh, green, watery cucumber notes. Useful in fruity flavors including melon and strawberry.</td>
<td>5.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>356</td>
<td>2402</td>
<td>2-Dodecenal (High Trans) FCC</td>
<td>A mandarin-orange citrus peel character with herbal nuances, such as cilantro.</td>
<td>1.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>359</td>
<td>3749</td>
<td>cis-5-Octenol</td>
<td>A powerful watermelon with a slight citrus note that enhances a variety of melon and summer fruit flavors.</td>
<td>0.1%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>364</td>
<td>3135</td>
<td>2,4-Decadienal FCC</td>
<td>Fatty, oily, savory chicken note. Also applicable in various nut flavors, especially peanuts.</td>
<td>1.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>369</td>
<td>4898</td>
<td>Pomelo Aldehyde</td>
<td>A bright citrus peel odor with strong grapefruit characteristics. Excellent for enhancing citrus flavors.</td>
<td>0.1%</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>380</td>
<td>3580</td>
<td>cis-6-Nonenal</td>
<td>Powerful, fresh, green, characteristic watermelon. Great for red fruit. Can also add fresh cut apple notes.</td>
<td>0.10%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>381</td>
<td>3264</td>
<td>Cardamom Aldehyde FCC</td>
<td>A unique spicy, zesty citrus note that is reminiscent of freshly crushed cardamom pods.</td>
<td>1.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>387</td>
<td>4036</td>
<td>cis-4-Dodecenal</td>
<td>Long lasting, fresh citrus odor. Excellent for enhancing citrus peel notes in orange, tangerine, and mandarin.</td>
<td>1.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>390</td>
<td>3912</td>
<td>9-Decenal (98+%)</td>
<td>A distinctive, natural citrus rind character, particularly for orange and grapefruit flavors.</td>
<td>0.1%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>410</td>
<td>3829</td>
<td>Apritone</td>
<td>A smooth, pulpy apricot with a sweet pit fruit character. Excellent for apricot, peach, plum, cherry and lychee.</td>
<td>5.0%</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>433/EU</td>
<td>3148</td>
<td>Ethyl 2,4-Decadienoate</td>
<td>Juicy, green, characteristic of Bartlett pear. Useful in pear, apple, and tropical flavors, such as mango.</td>
<td>5.0%</td>
<td>Yes (EU)</td>
<td>Yes</td>
</tr>
<tr>
<td>493</td>
<td>4165</td>
<td>Guavanate</td>
<td>Exotic, musty characteristic of pink guava. Excellent for mango, guava, longan, and other tropical flavors.</td>
<td>1.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>512</td>
<td>3456</td>
<td>Cerezoate</td>
<td>A powerful, ethereal, natural black cherry odor with aspects of fresh apple, pineapple, and strawberry.</td>
<td>1.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>513</td>
<td>3710</td>
<td>Methyl 3-Nononoate (High Trans)</td>
<td>A sweet, fresh apple note with hints of melon. Excellent in red fruit applications, especially strawberry.</td>
<td>5.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>536</td>
<td>3682</td>
<td>Tropical Dienoate</td>
<td>Powerful, ripe, juicy, characteristic of fresh pineapple. Brightens and enhances a variety of tropical fruit flavors.</td>
<td>1.0%</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>728</td>
<td>4903</td>
<td>Nuezate</td>
<td>Woody, black walnut characteristic. Great for adding earthy notes typical of many tree nuts to brown flavors.</td>
<td>0.5%</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>858</td>
<td>3391</td>
<td>Hazelnut Furan FCC</td>
<td>Sweet, nutty, specifically roasted hazelnut notes. Works well at enhancing chocolate, coffee, and savory flavors.</td>
<td>0.05%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>891</td>
<td>3660</td>
<td>9-Decenoic Acid</td>
<td>Useful in dairy-type flavors, especially for imparting creamy notes and enhancing waxy notes.</td>
<td>10.0%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>