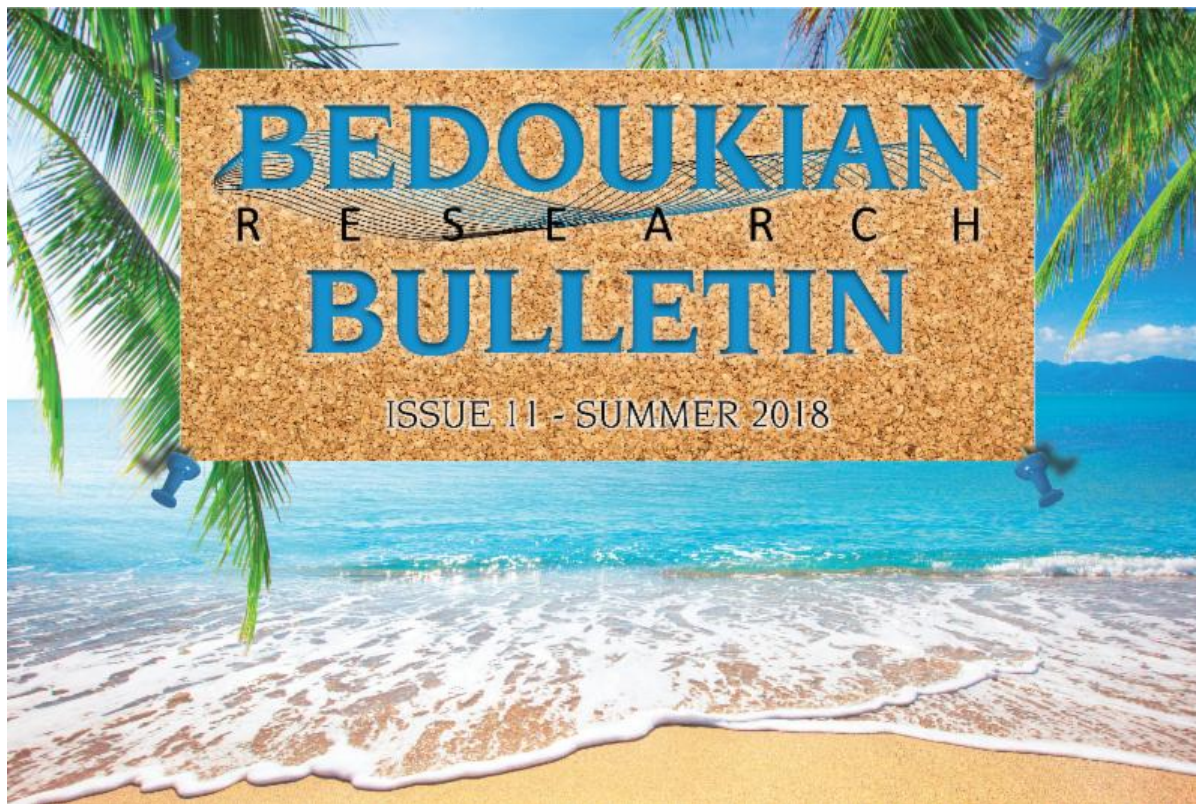


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This issue of the Bedoukian Bulletin features four of Bedoukian's specialty ingredients: 9-Decenoic Acid, Nuezate, Pomelo Aldehyde, and Cis-4-Dodecenal.



Summer Staples Collection

The sun is shining and summer is here. Spending time outdoors and entertaining are two popular summertime activities. What would summertime entertaining be without cocktails and ice cream? According to Nielsen data for the 52 weeks ending May 2017, sales of the Ready-To-Drink (RTD) cocktail category rose by 5% with about half of the category's total sales volume in the grocery store channel. Mintel predicts that sales of RTD spirits-based cocktails in the U.S. will rise by 9% in volume by 2021. According to Market Research Future, the worldwide RTD spirit market is projected to grow at a CAGR of 3.1% during 2018 - 2023, with Europe dominating, lead by UK, Germany, Spain, and the Netherlands. Revenue in the U.S. Ice Cream segment amounts to U.S. \$11,187 million in 2018, growing at a CAGR of 1.3% during 2018-2021, according to Statista.com.

These two indulgent treats go hand in hand with summer. Inspired by summer fun and entertainment, Bedoukian introduces the **Summer Staples Collection**. This collection focuses on milky and nutty building blocks for ice cream and non-dairy frozen desserts and citrus building blocks for cocktail inspirations. These flavor and fragrance directions feature a variety of versatile ingredients that can be used in a range of formulations.

[Bedoukian 9-Decenoic Acid \(BRI 891\)](#)



It's summertime and we all scream for ice cream. Ice cream is such a popular summer staple, it has its own national holiday. National Ice Cream Month is celebrated each year in July and National Ice Cream Day is celebrated on the third Sunday in July. It is reported that the average American consumes anywhere between 19.7 to 23 pounds of ice cream annually.

The global ice cream market is anticipated to reach U.S. \$78.8 billion by 2025, growing at a CAGR of 4.1%, according to Grand View Research Inc. Wise Guy Reports' research projects the global market value of artisanal ice cream is to display a steady growth represented by a CAGR of 7.20% during 2018- 2023.

As consumers look to cut down on their **dairy** consumption, there has been an increase in nut-based **dairy alternatives**. Consumers might want to consume less dairy, but they still crave frozen novelties and ice cream alternatives. According to Future Market Insights, the global market for plant-based ice cream is poised to reach U.S. \$2.45 billion value by 2027. Almond, coconut and cashew nut-based frozen treats are appearing in the freezer section from indie brands and large consumer goods manufacturers.

Based on **almond milk**, Ben & Jerry's **Peanut Butter Half Baked** and **Cinnamon Buns** launched in 2018 and joined **Caramel Almond Brittle**, **Cherry Garcia**, **Chocolate Fudge Brownie**, **Chunky Monkey**, **Coconut Seven Layer Bar**, **Coffee Caramel Fudge**, and **P.B. & Cookies**. Also almond milk-based, Breyers introduced **Non-Dairy Dessert - OREO™ Cookies & Cream** and **Non-Dairy Vanilla Peanut Butter** flavors.

Häagen-Dazs wanted in on the action and debuted a vegan line of ice cream in four flavors: **Coconut Caramel**, **Chocolate Salted Fudge Truffle**, **Mocha Chocolate Cookie** and **Peanut Butter Chocolate Fudge**.

Halo Top has become a cult favorite ice cream brand known for their indulgent yet light, low-calorie ice cream flavors. Riding the coattails of its success, in 2018 Halo Top dropped 14 **coconut milk** based flavors such as **Birthday Cake, Candy Bar, Chocolate Almond Crunch, Chocolate Chip Cookie Dough, Pancakes & Waffles, Toasted Coconut, and Vanilla Maple. Caramel Cold-Brew & Cookies, Cookie Dough Fudge and Strawberry Cheesecake** join **Nada Moo's** portfolio of coconut milk dairy-free frozen desserts. **Baskin-Robbins** introduced **Horchata**, a vegan-friendly flavor inspired by the popular Central American drink. It highlights cinnamon and coconut cream with the taste of rice and various spices.

Cashew nut-based frozen treats are the newest nut to emerge. **So Delicious Dairy Free** has introduced two frozen dessert flavors in the U.S. in **cashew milk** flavors: **Bananas Foster** and **Peachy Maple Pecan. My/Mo** by **The Mochi Ice Cream Company** has launched a cashew-based dairy-free mochi line available in **Chocolate, Salted Caramel, Strawberry, and Vanilla** variants wrapped in soft rice dough.

DID YOU KNOW? Fatty character without the fat! [Bedoukian's 9-Decenoic Acid](#) is great for adding a fatty, creamy mouth feel to dairy-type applications as well as enhancing waxy notes in cheese flavors. **Looking for your next secret ingredient? Bedoukian's 9-Decenoic Acid will make your flavors the cream of the crop!**

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BRAND NEW Bedoukian Nuezate (BRI 728)



Hazelnut is a well-known and well-liked coffee flavor while Nutella has helped popularize hazelnut in desserts and ice cream. **Black Walnut** and **Maple Walnut** are additional nutty flavors appearing in ice cream.

Dunkin' Donuts has re-released its 2017 ice cream flavored coffees that fans voted on last year. The new 2018 coffee flavors include **Butter Pecan**, **Cookie Dough** and **Pistachio** while **Starbucks'** latest seasonal beverage for spring 2018 is the **Hazelnut Mocha Coconutmilk Macchiato**, which is served hot or iced and made with a combination of espresso, sweet hazelnut syrup, Sumatran coconutmilk and a mocha drizzle. **Grady's Cold Brew** has released two additional flavors of its craft cold brew: **Hazelnut Mocha** and **French Vanilla**. One of **Oreos'** new flavors is **Chocolate Hazelnut**, which features a chocolate hazelnut creme filling sandwiched between two vanilla wafer cookies.

Baskin Robins, **Blue Bell**, and **Blue Bunny** all offer **Black Walnut** ice cream flavors while **Perry's** and **Turkey Hill** carry **Walnut Maple** ice cream. **Middle West Whiskey & Pecans** was part of **Jeni's** Father's Day ice cream collection and highlighted whiskey ice cream made with Middle West Spirits combined with notes of butterscotch, honey, coconut, and vanilla laden with crunchy, salty, toasted pecans.

At the beginning of the year **Magnum Ice Cream** launched **Magnum Tubs** in four flavors, which are all encased in a shell of chocolate. **Milk Chocolate Hazelnut** is one of the four flavors and features "silky hazelnut ice cream with caramelized hazelnuts and thick chocolate shards, all surrounded by a cracking Magnum chocolate shell and topped with caramelized hazelnuts." **Publix** supermarket offered a limited edition **Hazelnut Biscotti** ice cream made with rich chocolate hazelnut ice cream, amaretto cookie swirls and dark chocolate flakes. In the UK, **Milka** debuted the **Grandissimo Milka** ice cream, which highlights white chocolate and hazelnut flavor.

In fine fragrance, **nutty** and **maple** accords are used to add warmth to woody base notes, leading to a variety of interesting interpretations.

In 2006, **Banana Republic** debuted the **Discover Collection** and **Black Walnut For Men** was one of the five scents launched. The aromatic woody scent features a cognac top note, tobacco middle note and Virginia cedar base. The perfume won the 2007 FiFi Award Fragrance Of The Year Men's Private Label/Direct Sell award and is still a popular scent. Last year, **Jo Malone** introduced **English Oak & Hazelnut**, which is a composition of green hazelnut, cedar, vetiver, amber and roasted oak. **Ralph Lauren Woman** was introduced in June 2017 and highlights white florals with rich vibrant woods with pear, rhubarb, blackcurrant, tuberose, orange flower, rose, sandalwood and hazelnut notes. French fashion house **Courrèges** launched **Mini Jupe**. The fragrance is based around candied mandarin and jasmine, with additional notes of grapefruit, watermelon, sandalwood, hazelnut, vanilla and musk. Singer songwriter Shawn Mendes launched **Shawn Mendes Signature**, a unisex fragrance. The scent "draws you in with a harmony of fresh citrus and radiant woody florals, touched with his native maple." Additional notes include lemon, pineapple, apple, frangipani, rose, dulce de leche, white cedar and skin musk. **Citron d'Erable** (Lemon Maple) joined **Atelier Cologne's Collection Azur**. The fragrance combines lemon, mandarin, maple syrup accord, sandalwood, pepper, eucalyptus, black currant, maple wood, sequoia and cedar.

In air care, **Yankee Candle** introduced **New England Maple** as an online exclusive while **Swan Creek Candle** offers **Barrel-Aged Maple** in their spring 2018 collection.

DID YOU KNOW? A jack of all trades, [Bedoukian's Nuezate](#) has found its niche in both flavors and fragrances. Blueberry can be a hard note to capture authentically, but

Nuezate's dry, woody, slightly ripe back notes make this ingredient ideal for blueberry applications. For a full list of applications be sure to read [John Wright's article "Flavor Bites: Ethyl 3-methyl 2-oxo-pentanoate"](#) in the May issue of Perfumer & Flavorist. In fragrances, this material works excellently in gourmand types, uniquely extending Vanillin and Ethyl Vanillin in Vanillin rich formulas. Nuezate also offers a fine fragrance appeal when used in a citrus base providing majestic synergy while paired together with [Bedoukian's Cardamom Aldehyde](#). **Make your customers go nutty - give Bedoukian's Nuezate a go!**

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BRAND NEW Bedoukian Pomelo Aldehyde (BRI 369)



INGREDIENT CHARACTER

A BRIGHT CITRUS PEEL ODOR WITH STRONG GRAPEFRUIT CHARACTERISTICS.

45% of respondents used **grapefruit** in their formulas and it moved up from its No. 10 position in last year's survey to No. 4 with a 14% increase, according to Beverage Industry's New Product Development Outlook 2017 Study. Additionally, grapefruit is the most anticipated best-selling flavor for 2018, with 25% of survey-takers naming it.

Spiked water is gaining momentum as consumers look for refreshment and better-for-you beverages. **Montane Sparkling Spring Water** added a new flavor to its lineup, **Grapefruit Peach**. **Splash Spiked Sparkling Water** is a new RTD alcohol drink made with sparkling water, vodka and natural fruit flavors. It launched in Canada in two flavors: **Mixed Berry** and **Tropical Grapefruit**. **Ficks & Co.**, the maker of all-natural cocktail mixers, debuted the **Ficks Hard Seltzer** line offered in four flavors: **Grapefruit**, **Lime**, **Blackberry** and **Cranberry** and are a mix of fruit alcohol, real fruit juice and sparkling water. **Sauza Agua Fuerte** is a new alcoholic beverage made with Sauza Silver Tequila. The spiked sparkling water is available in three distinct flavors: **Grapefruit**, **Lime**, and **Mango**. Hispanic-inspired cocktails, Geloso Beverage Group's **Clubtails** brand launched two new flavored

malt beverages: **Cuba Libre** with rum, cola and lime and **Paloma** with tequila, grapefruit and lime.

Canned wine blends using grapefruit have been gaining popularity over the last few years. For example, **Ramona** is a white wine flavored with natural ruby grapefruit flavors and organic cane syrup crafted by Jordan Salcito, wine director at Momofuku restaurants and founder of **Bellus Wines**. **Foxie Grapefruit Spritzer NV** by **Field Recordings** features dry rosé wine blended with mineral water, grapefruit and Simcoe hop. This year, **Social Organic Sparkling Wine** dropped and is made from brown rice flavored with extracts and essences and contains only 4% alcohol. It comes in four flavors: **Elderflower Apple**, **Hibiscus Cucumber**, **Pink Grapefruit Ginger**, and **Toasted Coconut Almond**.

Now grapefruit is a trendy fruit emerging in craft beers. Due to high demand, in 2018 **Eddyline Brewery** rereleased its 2017 seasonal **Grapefruit Yanker IPA**, which is a grapefruit infused version of its best selling Crank Yanker IPA. **Spencer's Grapefruit IPA** is brewed with grapefruit and Citra hops and is the second in the brewery's Fruit Series.

On the fragrance side, **grapefruit** is surfacing in fine fragrance. **Jo Loves Pomelo** by **Jo Malone** is the brand's hero product and best seller, which was launched in 2011. It is inspired by Malone's summer holidays, and highlights fresh, grapefruit-infused citrus notes with spicy, floral and woody undertones. **Grapefruit Lime** is one of seven new fragrances in the **Peace Perfumes by The 7 Virtues Collection**. The scent highlights top notes of sweetie grapefruit, lime and a basil blend with heart notes of green tea and petit grain and a warm dry down with bamboo and cedarwood. Indie brand **Smell Bent** has launched **1999**, a new fragrance that is self-described as "in a nutshell: grapefruit soda" while **By Rosie Jane Tilly** fragrance has grapefruit, gardenia and coconut accords.

In air care, **Trader Joe's** launched a **Grapefruit Scented Candle** while **Grapefruit** joined **Nest's** Luxury Candle collection. **Partylite** offers a **Pink Grapefruit** candle, which is described as "A juicy blend of citrus infused with pink grapefruit, orange peel and ripe peach is topped with sugar crystals." In addition, **Citrus Nectar** features "sparkling grapefruit and wild spearmint boosted by the energy of bright yellow lemons and oranges" in **Partylite's** new **SmartBlends** flameless application.

DID YOU KNOW? With the recent grapefruit shortages - grapefruit oil prices are at an all time high. [Bedoukian's Pomelo Aldehyde](#) is an excellent alternative - adding fresh, juicy pulpy notes to grapefruit reconstructions, flavors, and pomelo types. In flavors, Pomelo Aldehyde can also be used to enhance the juicy, meaty notes in Watermelon types when used at low levels (between 1.0 PPB - 4.0 PPB). **Looking for a new "main squeeze"? Give Bedoukian's Pomelo Aldehyde a try!**

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[Bedoukian Cis-4-Dodecenal \(BRI 387\)](#)



Summertime is here and what better way to celebrate than have a cocktail? Citrus is an important building block in cocktails. Citrus peel notes of **orange**, **tangerine** and **mandarin** give cocktails and beverages fresh, sparkling nuances.

According to Beverage Industry's New Product Development Outlook 2017 Study, 47% of respondents used orange as part of their formulations. Orange usage increased by 12% from last year's survey. In addition, orange was a top-selling fruit flavor with 15% of respondents citing it.

This spring, **Belvedere Ginger Zest** joined the **Belvedere Vodka** collection. The new expression features fragrant ginger, lemon, and grapefruit and is described as "ginger spice balanced with zesty citrus." In May 2018, **Ketel One Botanical** launched with three flavors: **Cucumber & Mint**, **Grapefruit & Rose**, and **Peach & Orange Blossom**. **Playa Real Tequila** introduced a line of three fruit-infused tequilas and **Mandarin** is one of the three flavors while Italian gin brand **Malfy** has added **Malfy Gin Con Arancia**, which is distilled with Sicilian blood oranges. Available in Japan, a novel alcoholic citrus drink is **Coca Cola's** new **Lemon-Do** drinks, which contain three, five and seven percent alcohol and are based on the popular Chuhai drinks.

For individuals that have a hard time choosing between a drink or dessert, **Jeni's** ice cream debuted the **Boozy Collection** in **Brandied Banana Brûlée**, **Frosé Sorbet**, and **Riesling Poached Pear Sorbet** flavors.

On the fragrance side, **orange citrus** directions and cocktail inspired scents are appearing.

Last summer, **Elie Saab Girl of Now** launched and the fragrance highlights notes of pear, mandarin, pistachio, jasmine, magnolia, almond, patchouli, tonka bean, cashmeran and almond milk. This year, **Dolce Garden** joins the **Dolce & Gabbana** portfolio. The notes include mandarin, neroli, magnolia, frangipani, coconut, almond milk, vanilla and sandalwood. **1872 Twist Tarocco Orange** is one of six new fragrances in the Twist

collection by luxury niche line **Clive Christian**. The fragrance is described as "Sparkling lemon and bitter sweet Tarocco orange tingle with warming ginger. Orange blossom petals drift into elegant lily of the valley before melting into a base of creamy sandalwood."

In the spring, French niche line **Juliette Has A Gun** introduced **Moscow Mule** named for the cocktail. The fragrance includes ginger, lime, bergamot, apple, amber, sandalwood, iso e super, ambroxan, ambretolide and norimbanol accords. Luxury niche brand **By Kilian** launched **Love The Way You Taste** as a new limited edition summer fragrance. The fragrance is self-described as "A sparkling and sophisticated Mojito cocktail in a refreshing fragrance. It hits with head notes of lemon and peppermint for an invigorating first impression. Once the lips touch the cocktail glass, the elixir reveals heart notes of green leaves and magnolia flower. It remains on the skin with an effervescent sparkle, long-lasting accords of a summertime tonic of sparkling water and vetiver." **Kelly & Jones Mezcal Collection** explores "a new type of terroir" inspired by Mexico. **Mezcal Blanca** is "a blend of sheer citrus and solar resins," with notes of peppercorn, palm, sea salt, juniper and star anise while **Mezcal Negra** is "a blend of smoked woods and mystical spice," with notes of pine, black lime, guaiac wood, cajeta and clary sage.

In air care, **Colonial Candle** introduced a **Peach Bellini** candle in the spring 2018 collection. The candle description reads "ripened peach collides with splashes of mandarin and grapefruit zest joined together with white rum and green apple." **Yankee Candle** launched a limited edition **Juicy Citrus & Sea Salt** candle described as "orange and grapefruit, wonderfully cool and lush and edged with salt." **Sicilian Tangerine** joins **Nest's** Luxury Candle portfolio.

DID YOU KNOW? [Bedoukian's Cis-4-Dodecenal](#) is one of our newest ingredients. It provides significant lift to citrus types and is excellent for imparting authentic, waxy grapefruit and lemon citrus peel notes to flavors and fragrances. **Juice up your formulations with our latest ingredient. Give Bedoukian's Cis-4-Dodecenal a try!**

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