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Newsletter

CHEMICO INTEGRATED WELLNESS
Beauty & Longevity Solutions

03/2026

Why Are Antioxidants Important in

Sunscreen *Products?*

Neutralization of Free Radicals

Reduction of Inflammation and DNA Damage

Prevention of Photoaging

Stability and Sunscreen Performance

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Why Are Antioxidants Important in Sunscreen Products?

Sunscreen is widely recognized as a primary defense against the harmful effects of UV radiation. Most sunscreens use UV filters to absorb, reflect, or scatter UV rays. However, UV exposure triggers the formation of reactive oxygen species (ROS), which contribute significantly to skin aging and skin cancer. Antioxidants are added to sunscreen formulations to help neutralize these harmful molecules, enhancing overall photoprotection.

Role of Antioxidants in Sunscreen

Antioxidants are molecules capable of neutralizing free radicals by donating electrons without becoming unstable themselves. In sunscreen formulations, antioxidants serve several key functions:

- **Neutralization of Free Radicals**

Antioxidants such as Vitamin C (Ascorbic Acid), Vitamin E (Tocopherol), Green Tea Polyphenols, and Ferulic Acid scavenge ROS generated by UV exposure, reducing oxidative damage at the cellular level.

- **Prevention of Photoaging**

Antioxidants help preserve skin structure by inhibiting matrix metalloproteinases (MMPs) responsible for collagen breakdown.

- **Reduction of Inflammation and DNA Damage**

Many antioxidants help reduce inflammation, which can lessen redness caused by UV exposure and support the skin's immune defenses. Some antioxidants also support DNA repair mechanisms, lowering the risk of mutations that may lead to skin cancer.

- **Stability and Sunscreen Performance**

Some antioxidants also improve the photostability of UV filters, preventing their degradation under sunlight. This helps maintain consistent UV protection during sun exposure.

Antioxidants are an essential component of modern sunscreen formulations. Incorporating antioxidants into sunscreen represents a more comprehensive and effective approach to skin protection and long-term skin health.

References:
1. https://pmc.ncbi.nlm.nih.gov/articles/PMC9854756/
2. https://www.sciencedirect.com/science/article/pii/S2949688825000012

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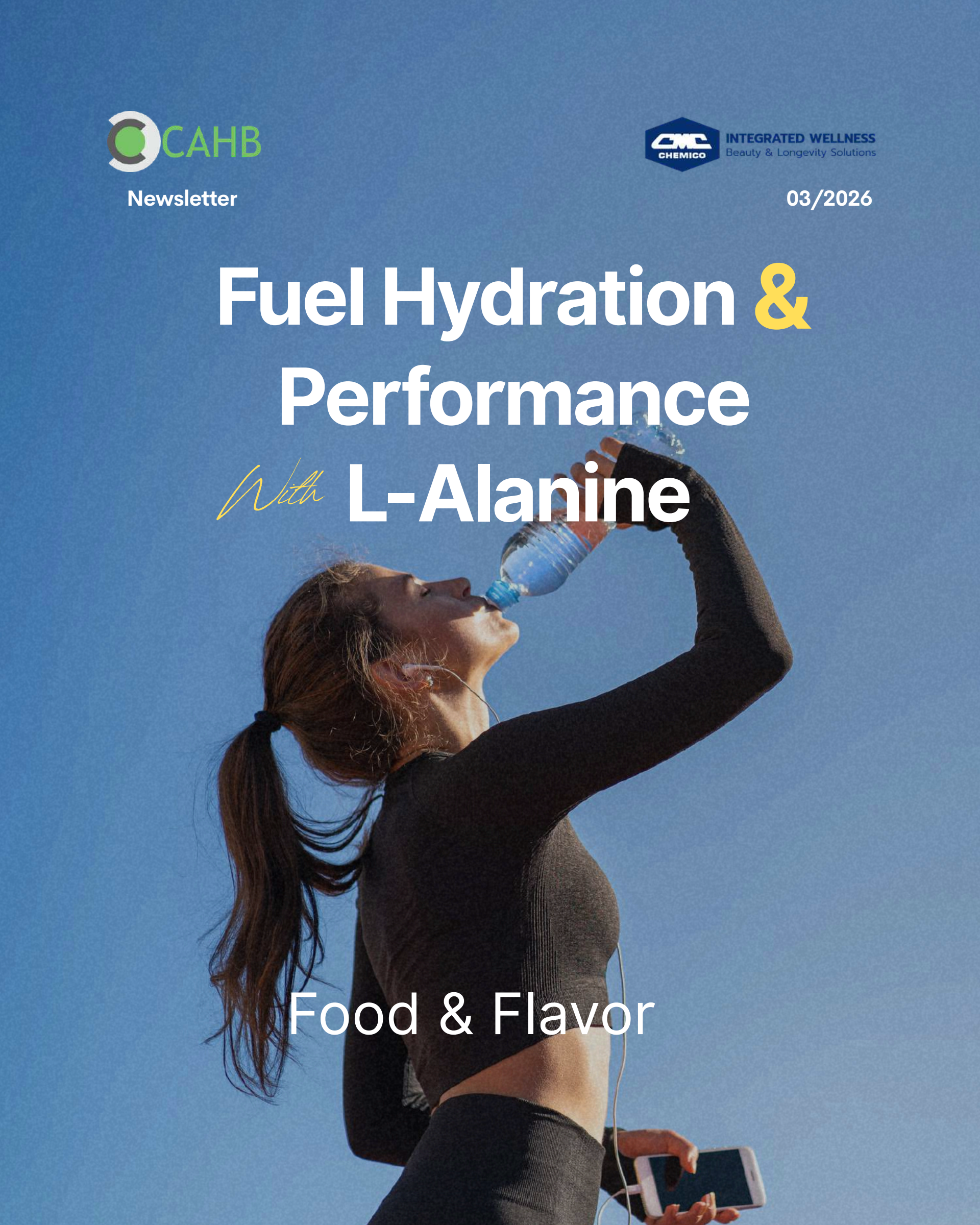
Fuel Hydration & Performance *With* L-Alanine



Food & Flavor

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Hydration plays a critical role in maintaining endurance, performance, and recovery during physical activity. While electrolytes help restore fluid balance, functional amino acids such as **L-Alanine** can further enhance hydration and metabolic support.

L-Alanine is involved in energy metabolism through the glucose-alanine cycle, helping supply energy during exercise. It also supports sodium dependenttransport mechanisms, which contribute to efficient fluid and nutrient absorption, making it a valuable addition to advanced hydration formulations.

In addition, **L-Alanine** may help improve the bioavailability and utilization of BCAAs (branched-chain amino acids), including leucine, isoleucine, and valine. This supports more efficient amino acid delivery to muscles, enhancing performance and recovery.

Key Benefits :

* Supports hydration and electrolyte function
* Contributes to sustained energy metabolism
* Helps improve BCAA bioavailability and utilization
* Ideal for sports drinks, electrolyte powders, and active nutrition products

"**L-Alanine** not only supports hydration and energy metabolism but also helps improve the utilization of BCAAs. By supporting amino acid transport and metabolic balance, alanine enhances the efficiency of muscle-supporting amino acids-making it a valuable ingredient in advanced sports nutrition and hydration formulations."

References:
1.https://www.ahb-global.com/product/52
2.Erickson, R.H. & Gum, J.R. (1990). Mechanisms of amino acid absorption in the small intestine. Physiological Reviews, 70(1), 89–126.

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UNLOCKING THE SIGNATURE FLAVOR OF

NAM HOM COCONUT WATER

Coconut and other plant waters are the best-performing category in 2025, making them one of the fastest-growing segments within fruit-based beverages. Product innovation continues to expand. Concepts now range from indulgent coconut water offerings to electrolyte-enhanced formulas designed to support superior hydration.

Beyond nutrition, aroma plays a key role in driving consumer preference, especially for Thai aromatic coconut, known as Nam Hom. This variety is widely recognized for its naturally sweet, creamy, and pandan-like character.

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Key Aroma Compounds in Thai Aromatic Coconut Water

Recent research using advanced aroma analysis techniques has identified several important volatile compounds responsible for the characteristic flavor of Thai aromatic coconut water.

Major key compounds include:

- **2-Acetyl-1-pyrroline (2-AP)**: The main contributor to the signature pandan-like, creamy, popcorn-like aroma
- **Acetoin**: Provides buttery and creamy notes
- **2,3-Butanedione (diacetyl)**: Adds rich, buttery sweetness
- **Ethyl octanoate and ethyl caproate**: Deliver fruity, sweet, tropical nuances
- **Octanal and nonanal**: Contribute fresh, citrusy, green notes
- **Isovaleraldehyde**: Adds a malty, sweet character

Together, these compounds from ester, aldehyde, ketone, and alcohol groups create the complex and appealing aroma profile of aromatic coconut water.

Emerging Coconut Water Concepts

There are three concept directions highlighting how coconut water is evolving beyond basic hydration.

- **Matcha Coconut Water: Productivity Hydration**

This concept combines coconut water with matcha to create a clean energy hydration drink. It delivers natural electrolytes and slow-release caffeine.

- **Pistachio Coconut Water: Indulgent Wellness**

This concept reflects the growing demand for indulgent wellness beverages. It offers creamy mouthfeel and nutty flavor complexity while maintaining a lighter, plant-based positioning compared with traditional dairy-based drinks.

- **Tropical Fruit Coconut Water: Everyday Functional Refreshment**

This concept blends pure coconut water with the vibrant sweetness of tropical fruits such as **mango**, **watermelon**, **pineapple**, and **lychee**. It delivers natural electrolyte hydration from coconut water together with fruity flavor appeal and antioxidant benefits from tropical fruits. The result is a light, refreshing beverage suitable for active lifestyles, post-workout recovery, or convenient daily hydration.

Understanding these key aroma compounds can guide flavor creation and formulation strategies, enabling the development of authentic Thai coconut profiles across beverages, dairy, and plant-based applications.

References:
1) Innova Market Insights, Top Food and Beverage Trends 2026, November 2025
2) Research Gate, Comparative key aroma compounds and sensory correlations of aromatic coconut water varieties: Insights from GC × GC-O-TOF-MS, E-nose, and sensory analysis, March 2024
3) Datafa, Coconut Water Benefits: 10 Facts & 2026 Market Trends, January 2026

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UPCOMING EVENTS

Mar-Apr 2026

30 MAR-1 APR	International Food & Drink Event, Excel London, UK
30 MAR-2 APR	ProPak Vietnam 2026, Ho Chi Minh, Vietnam
31 MAR-3 APR	Cosmetic Inside Korea 2026, Goyang-si, South Korea

10 APR	Momentive Seminar, Chemico Asia Pacific (M) Sdn. Bhd., Penang, Malaysia
8-11 APR	The Vietnam Expo, Hanoi, Vietnam
13-15 APR	Food & Drink Expo 2026, NEC Birmingham, UK
14-15 APR	World Ageing Festival 2026, Singapore
14-16APR	in-cosmetics Global 2026, Paris, France
14-16APR	Food Show Malaysia 2026, Kuala Lumpur, Malaysia

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UPCOMING EVENTS

Mar-Apr 2026

Hi Japan

15 APR — Momentive Seminar, Chemico Vietnam Co., Ltd., Ho Chi Minh City, Vietnam

16-17 APR — Health Food Expo, Ingredients and Contract Manufacture 2026, Tokyo, Japan

16-18 APR — Vietnam Beautycare Expo 2026, Hanoi, Vietnam

18-20 APR — America's Beauty Show (ABS) 2026, Chicago, IL, USA

20-22 APR — Beauty Asia 2026, Singapore

24-26 APR — Wellfest India 2026, Greater Noida, India

27-28 APR — Medi Wellness Congress, Geneva, Switzerland

29 APR — CAHB Food Seminar, PT. Chemico Surabaya, Surabaya, Indonesia