



NATURAL INGREDIENTS FOR
FLAVORS & FRAGRANCES

FLAVYREN™

Natural solution



AFYREN

GLOBAL CHALLENGES

As pressure on resources continues to increase, our planet's biocapacity is gradually shrinking. Because of the ever widening gap between demand and supply of natural resources, we would need the equivalent of 1.7 Earths to meet our current needs.



Today,

1.7 Earths

to meet our resource needs

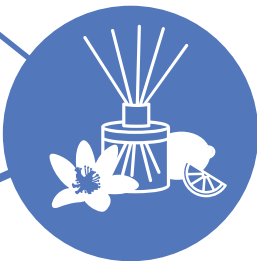


The global population keeps growing and should reach **11.2 billion people before the end of the century.**

Faced with this reality, requirements are evolving and the flavors and fragrances market is confronted with new challenges.

ORIGINAL

- Authentic and genuine ingredients for flavors and fragrances



- Growing desire for well being, for healthy and sustainable food and cosmetics with a lower impact on the environment

- Strong regulations are being put in place in Europe and the US to ensure the natural origin of the ingredients used for flavors and fragrances production.



SUSTAINABILITY

NATURAL



- Consumers are demanding more genuine and less human crafted products.
Flavors: authentic tastes
Natural and green fragrances



REGULATION

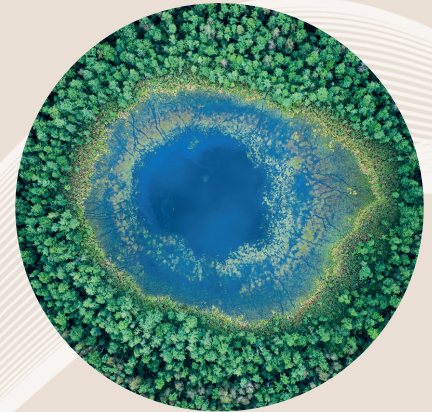
AFYREN'S COMMITMENTS

Afyren offers solutions that mitigate the impact of complex global problems and contribute to the development of a better balance between human needs and environmental resources.



Reduce waste
and optimize
circularity

Limit climate
change



Preserve natural
resources and
biodiversity



DECARBONATION OF PRODUCTION AND CONSUMPTION

- › GHG emissions reduction
- › Replacement of fossil resources

NATURAL RESOURCE PRESERVATION

- › No additional land use
- › Highly renewable resources
- › Natural fermentation process
- › Low water consumption

REDUCING WASTE AND FOSTERING CIRCULARITY

- › Zero industrial waste
- › Using waste or by-products as raw materials

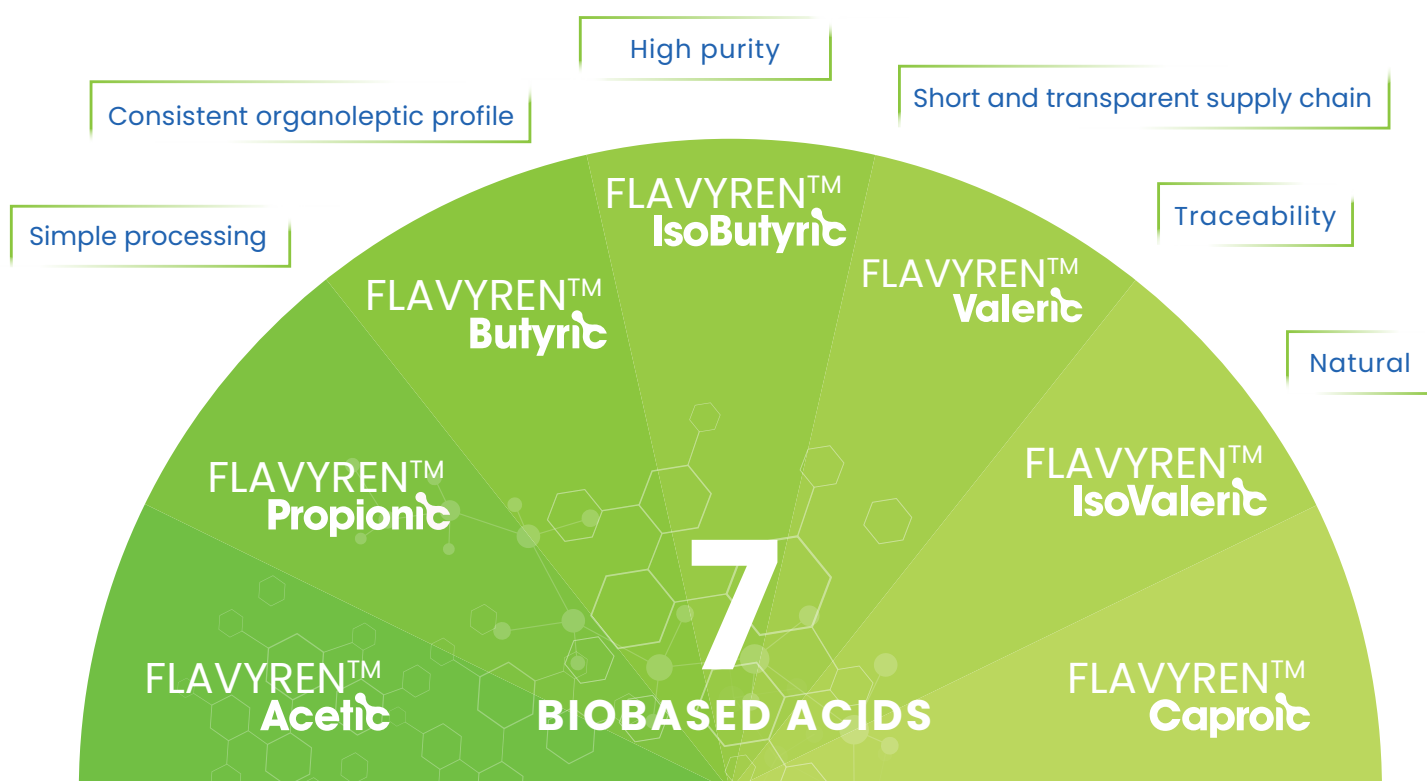
TERRITORIAL REVITALIZATION

- › Conversion of existing industrial sites
- › Local value chains
- › Employment

FLAVYREN™ IS 100% NATURAL

Unique high quality NATURAL acids for flavors and fragrances ingredients. All AFYREN acids are produced locally in Europe via a lean process, based on renewable natural raw materials. They have a high level of purity and a consistent organoleptic profile.

With FLAVYREN™, AFYREN offers a range of **7 natural organic acids** compliant to the EU Natural Flavouring Substance regulations with the lowest carbon footprint on the market. As rem quis



FLAVORS



FRAGRANCES



*Certification will be implemented for the manufacturing site

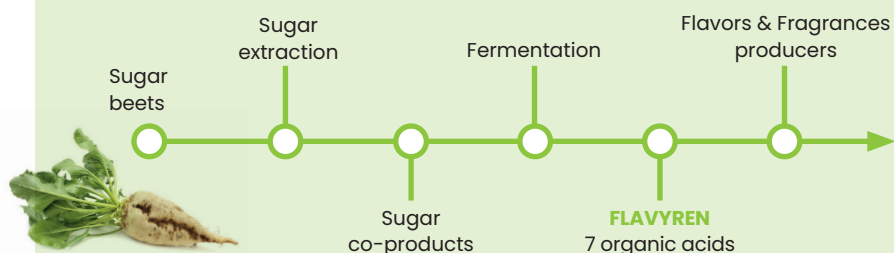
FLAVYREN™ is adapted for the creation of both flavors and fragrances.

As direct ingredients or building blocks of aromatic substances, FLAVYREN™ offers a local, natural and competitive solution for the production of a large pallet of fruit-like and dairy-like flavors.

AFYREN route to produce biobased organic acids

Natural and local value chain + lean and circular process

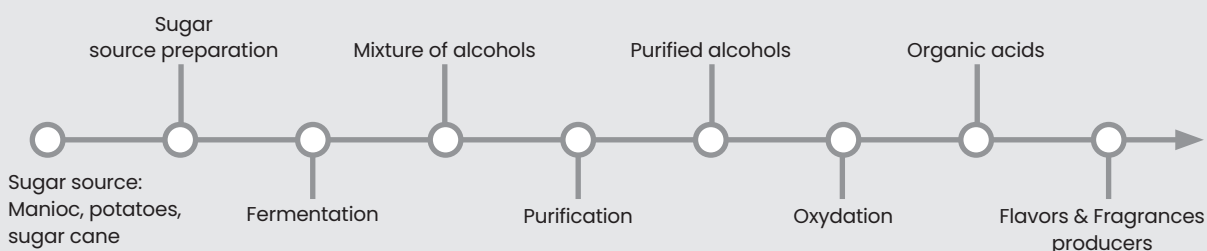
low energy consumption, renewable raw materials, no waste



An example of chemical route to produce bio-based organic acids

Natural but global and multi-step value chain with high impact on biodiversity and the environment:

high energy consumption



DID YOU KNOW ?

- That FLAVYREN™ 7 natural organic acids allow the creation of original derivatives like the Ethyl Valerate ?
- Ethyle Valerate is naturally present in the apricot flavor.
- FLAVYREN™ is a range of high quality and high purity organoleptic profile acids with consistent characteristics.



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Nature is the future.

Now, more than ever it is time to move forward together towards a sustainable, competitive, innovative industry, combining ecology and the economy.

With its biomimetic process and its of range of seven 100% biobased acids, AFYREN is revolutionizing the world of chemistry, opening up a range of possibilities for innovation, new products and carbon footprint reduction.

JOIN THE AFYREN INITIATIVE AND SEIZE NEW OPPORTUNITIES FOR COMPETITIVENESS.



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