

IMPROVE THE QUALITY OF LIFE WITH ECTOIN

WHY ECTOIN?

It is a multifunctional substance able to protect biomolecules from environmental stress: sunlight and blue light, temperature, dryness and osmolarity, as well as balancing the cellular microenvironment.

Mechanism of action: its main activity is to organize molecules of water surrounding it in a structural way. In fact, it is a protective osmolyte for cells that balances the amount of inter and extracellular water.

INDICATIONS

It can be used in numerous medical devices such as **ophthalmic, vaginal, rectal diseases as well as dermatological conditions** (dermatitis, sunburn, psoriasis and dandruff) thanks to its: physical mechanism which **regulates the hydration of the molecules**, protecting them from negative aggressions and to its physico-chemical characteristics which promotes the correct folding and an appropriate hydration. **Its high-water solubility is ideally suited as osmoprotectant.**



BENEFITS



Skin Care:

Soothes and repairs skin damaged by environmental stressors.



Respiratory Health:

Helps relieve symptoms of allergic rhinitis and respiratory irritation.



Vaginal Health:

Protects and balances vaginal flora, reducing discomfort.



Ophthalmic Care:

Alleviates dryness, irritation, and redness of the eyes caused by allergens, environmental pollutants, or contact lenses.

KEY ADVANTAGES OF SYNTHETIC ECTOIN:



Higher Purity: Synthetic Ectoin is produced under controlled conditions, leading to higher purity and consistency and lower impurity profile.



Faster Production Time: The synthesis process is faster, allowing quicker scalability. This can be a significant advantage for meeting market demand more efficiently.



No Risk of Contamination: Unlike fermentation, which involves living organisms that could potentially be contaminated, synthetic Ectoin minimizes this risk, ensuring a more controlled and predictable process.



Environmental Control: The synthetic production of Ectoin can take place in highly controlled environments, leading to more predictable yields and potentially less environmental impact compared to fermentation, which can generate by products requiring additional processing.

ECTOIN

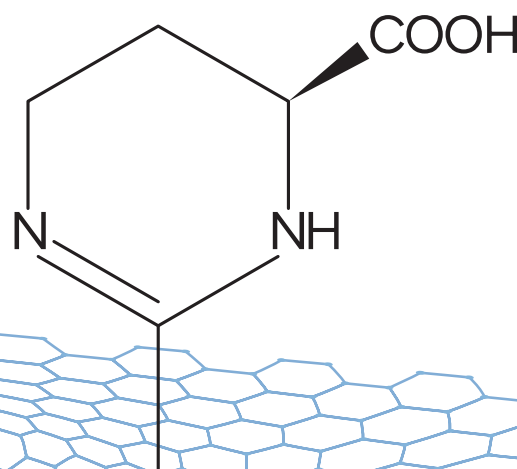
CHEMICAL NAME: (4S)-2-METHYL-3,4,5,6-TETRAHYDOPYRIMIDINE-4-CARBOXYLIC ACID

CAS: [96702-03-3]

APPEARANCE: WHITE TO OFF WHITE POWDER OR CRYSTALS

ASSAY (HPLC): 98.0% TO 102.0%

IDENTIFICATION 1H-NMR: CONFORMS TO STRUCTURE



MENADIONA is a European leading company specializing in complex chemistry, focused on manufacturing active ingredients for the life sciences sector.

Thanks to our state-of-the-art technology and facilities, we are now offering synthetic Ectoin production.