

AQUA  
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Nutrition Solutions

Health Solutions

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General Industry

# NovaSOL® Omega

Clear solutions for fish oil omega-3-fatty acids



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## Clear solutions for fish oil omega-3-fatty acids

In 1982, the Nobel Prize in Medicine was awarded for research about essential fatty acids. Since that time, the role of essential fatty acids in the human mind and body has been studied more than ever before. It is estimated that the body of knowledge surrounding Omega-3 fatty acids alone totals around 6,000 scientific studies, including 1,000 clinical studies, many of which have been published in such prestigious journals as The New England Journal of Medicine, Journal of the American Medical Association (JAMA), The Lancet, among others.

As many other fat soluble actives, omega3 fatty acids are very difficult to handle in beverages or other water based systems / emulsions. NovaSOL® Omega overcomes these hurdles and makes omega3 fatty acid available for an easy and stable integration into water based liquids. With the NovaSOL® basis grade, omega3 enhanced beverages stay clear at room as well as at refrigerator temperature.



### Clear solutions for your Omega-3 products

NovaSOL® Omega is a set of superior formulas, which bring innovation to liquid dietary supplements and functional beverages. Omega-3-fatty acids are associated with positive effects on :

- Heart and Cardiovascular Health
- Mental Health
- Pregnancy Health
- Skin Health
- Immune Health
- Joint Health

(Important note: The information in this section is for informational purposes only and is not meant to substitute for the advice provided by a physician or other medical professional. It is based on third parties scientific studies, clinical experience, or traditional usage. You should not use this information for diagnosing or treating a health problem or disease, or claiming product features. )



### Available grades

NovaSOL® Omega is offered in three grades:

- NovaSOL® **basic**: 17% omega3  
→ suitable for clear beverages & liquids
- NovaSOL® **rbg**: 4% omega3  
→ flavored ready to use beverage grade
- NovaSOL® **plus**: 23% omega3  
→ high load grade for turbid liquids

### Applications

NovaSOL® Omega is available for:

- Clear beverages
- Creation of liquid dietary supplements
- Bulk Solubilisate for Soft or hard gels
- Other functional foods and beverages

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NovaSOL® Omega fully utilizes the benefits of AQUANOVA's advanced biomimetic formula with its nature like micelle structure. The bioavailability of micellized actives from the nanosized carriers ("product micelles") are significantly higher than of the straight compounds and conventional formulations.

An easy way to analyze a formula's bioavailability is its transparency analysis: The lower the turbidity the better the bioavailability of fat soluble compounds. This is due to the fact, that human body can only absorb fat soluble actives such as Omega-3 into the blood stream when they have been cut down into a size and into a (micelle) structure, which allows the active to pass the membrane of the small intestine to blood plasma.

NovaSOL® Omega offers high quality fish oil in a fully water soluble and transparent form which keeps its solubility even at low pH values such as 1.1, which are typical for the human metabolism.



While a stable dissolution is vital for better bioavailability, it also is the main criteria for the creation of crystal clear beverages. Thus NovaSOL® Omega qualifies as a superior formula for healthy and functional beverages or liquid dietary supplements.

### Superior EPA/DHA fish oil

NovaSOL® Omega makes use of the best fish oil sources available on the market. The solubilisate thus offers:

- Total Omega-3 concentration: 17% of NovaSOL® solubilisate
- High EPA/DHA loadings
- Typical fish type: sardines, anchovies
- Typical source: Peru, Morocco



### Documentation & Samples

On request we will supply you with:

- Product data sheet
- Material safety data sheet (MSDS)
- Study report
- Samples solubilisate

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AQUANOVA is a supplier of innovative and versatile formulations of food and cosmetic ingredients, nutrients and pharmaceutical actives with superior properties providing new application opportunities. AQUANOVA in close cooperation with renowned scientists develops and manufactures (under ISO / GMP) liquid formulas (solubilisates with product brand "NovaSOL®") utilizing its proprietary technology. The solubilisates have a micelle structure, which is thermally, mechanically and pH stable, even in gastric acid. Owing to the special properties of this micelle structure, the solubilisates support the development of novel innovative and pioneering dietary supplements, functional foods and beverages, cosmetic products and pharmaceuticals. The company's headquarter is located in Darmstadt (near Frankfurt), Germany.

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