

DHA / Omega-3 Fatty Acid

Fatty acid – DHA and EPA concentrates

Product Description

Docosahexaenoic Acid (DHA) and Omega-3 Fatty Acid concentrates are used in nutraceutical supplements and pharmaceutical formulations for cardiovascular and brain health. Available to GRAS/USP standards.

Certificate of Analysis

HSN Code: 1504.20

CAS Number: 6217-54-5

Classification: Nutraceutical API — Omega-3

Parameter	Specification	Test Method
Appearance	Pale yellow to yellow oil	Visual
DHA Content	"e 3 5 % of total fatty acids	GC
EPA Content	As per grade specification	GC
Acid Value	"d 3 . 0 m g K O H / g	AOCS Cd 3d-63
Peroxide Value	"d 5 m E q / k g	AOCS Cd 8b-90
p-Anisidine Value	"d 2 0	AOCS Cd 18-90
Totox Value	"d 2 6	Calculated (2 × PV + AV)
Moisture	"d 0 . 1 %	Karl Fischer
Heavy Metals	"d 1 0 p p m	USP <231>

Physical Properties

Appearance: Pale yellow to yellow oil

Molecular Formula: C₂₂H₄₂O₄

Molecular Weight: 328.49 g/mol

Solubility: Practically insoluble in water; miscible with ethanol and oils

Melting Point: -45°C

Packing: 25 kg HDPE drums; 200 kg HDPE drums (nitrogen blanketed)

Storage: Store in a cool, dry place away from light. Under nitrogen blanket. Below 15°C for extended storage.

Safety & Handling

PPE: Gloves, safety goggles, lab coat

Hazards:

- Combustible oil
- Prone to oxidation