

AKÖMA™

FROM THE HEART

CERTIFICATE OF ANALYSIS HAZELNUT OIL (REFINED)

DESCRIPTION

Product: Hazelnut Oil (Refined)
INCI Name: Corylus Avellana (Hazel) Seed Oil
CAS No: 84012-21-5 / 185630-72-2
EINECS No: 281-667-7 / -

CHARACTERISTICS

| ANALYTICAL DETAILS | RANGE | RESULT |
|---|----------------------------|-----------|
| APPEARANCE | Clear, light yellow liquid | Complies |
| ODOUR | Almost odourless | Complies |
| COLOUR (LOVIBOND 5.25" CELL) | ≤ 25y; 2.5r | 12y; 1.0r |
| RELATIVE DENSITY @ 20°C (gr/cm ³) | 0.912 – 0.925 | 0.916 |
| REFRACTIVE INDEX @ 20°C (NR) | 1.465 – 1.473 | 1.472 |
| FREE FATTY ACID (% AS OLEIC) | ≤ 0.2 | 0.1 |
| IODINE VALUE (CALC) | 83 - 90 | 88 |
| PEROXIDE VALUE (Meq O ₂ / kg) | ≤ 5.0 | 1.0 |
| SAPONIFICATION VALUE | 187 -197 | 191 |
| UNSAPONIFIABLE MATTER | ≤1.0 | 0.6 |
| ACID VALUE | ≤ 0.4 | 0.2 |

| FATTY ACID PROFILE (MAJOR ACIDS) | ACID NAME | C-CHAIN | RANGE | RESULT |
|--|-----------------|---------|---------|--------|
| | PALMITIC | C16:0 | 5 – 9 | 7.4 |
| | PALMITOLEIC | C16:1 | ≤ 1.0 | 0.1 |
| | STEARIC | C18:0 | 2 – 6 | 2.7 |
| | OLEIC | C18:1 | 68 – 85 | 78.5 |
| | LINOLEIC | C18:2 | 7 – 15 | 9.6 |
| | ALPHA LINOLENIC | C18:3 | ≤ 0.5 | 0.1 |
| | ICOSANOIC | C20:0 | ≤ 0.5 | 0.2 |
| | ICOSENOIC | C20:1 | ≤ 0.3 | 0.2 |

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Hazelnut Oil (Refined) - COA