

Fatty Acid Product Datasheet

Item number: 40-023

Typical Analyses (January 2013)

| | Unit | Result | Method |
|--|--------|--------|--|
| Physical - chemical analysis | | | |
| Free fatty acids (calc. as oleic acid M 282) | % | 67,2 | conform ISO 660 (2009) / conform NEN EN ISO 660 (2009) |
| Insoluble impurities | % | 0,01 | conform ISO 663 (2007) / conform NEN EN ISO 663 (2007) |
| Iodine value | g/100g | 84,2 | conform ISO 3961 (2009) / equivalent to AOCS Cd 1b-87 / conform NEN EN ISO 3961 (2009) |
| Unsaponifiable matter | % | 4,43 | conform AOCS Ca 6a-40 n) |
| Water content Karl Fischer | % | 0,65 | conform ISO 8534 (2008) / conform NEN EN ISO 8534 (2008) n) |
| Phosphorus | mg/kg | 45 | conform ISO 10540-3 (2002) |
| Fatty acid composition | | | |
| Butyric acid C4:0 | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Caproic acid C6:0 | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Caprylic acid C8:0 | % | 0,2 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Nonanoic acid C9:0 | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Capric acid C10:0 | % | 0,2 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Decenoic acid C10:1 | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Undecanoic acid C11:0 | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Lauric acid C12:0 | % | 0,9 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Dodecenoic acid C12:1 | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| C13 branched | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Tridecanoic acid C13:0 | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Tridecenoic acid C13:1 | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| C14 branched | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| myristic acid C 14:0 | % | 1,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |



| | Unit | Result | Method |
|---|------|------------------|--|
| <i>Myristoleic acid C14:1</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>C15 branched</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Pentadecanoic acid C15:0</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Pentadecenoic acid C15:1</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>C16 branched</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Palmitic acid C16:0</i> | % | 22,9 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>palmitoleic acid C16:1</i> | % | 0,7 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>C17 branched</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Margaric acid C17:0</i> | % | 0,2 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Heptadecenoic acid C17:1</i> | % | 0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>C18 branched</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Ketostearic acid C18:0</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Stearic acid C18:0</i> | % | 7,9 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>12-Hydroxystearic acid (12-HSA)</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Oleic acid (octadecenoic acid), C18:1 (omega 9)</i> | % | 43,2 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Ricinoleic acid C18:1</i> | % | <0,100 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Conjugated linoleic acid (CLA), C18:2</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Linoleic acid (octadecadienoic acid), C18:2 (omega 6)</i> | % | 19,3 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>alpha-Eleostearic acid C18:3 (9Z, 11E, 13E)</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>alpha-linolenic acid (Octadecatrienoic) C18:3 (omega 3)</i> | % | 1,8 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>beta-Eleostearic acid C18:3 (9E, 11E, 13E)</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>gamma-linolenic acid (Octadecatrienoic) C18:3 (omega 6)</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Stearidonic acid (octadecatetraenoic acid) C18:4 (omega 3)</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Nonadecanoic acid C19:0</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Arachidic acid C20:0</i> | % | 0,4 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Gadoleic acid C20:1 (omega 6)</i> | % | 0,6 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Eicosadienoic C20: 2 (omega 6)</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Heneicosanoic acid C21:0</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Behenic acid C22:0</i> | % | 0,4 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Erucic acid C22:1 (omega 9)</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Docosadienoic acid C22:2 (omega 6)</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Tricosanoic acid C23:0</i> | % | <0,1 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |
| <i>Lignoceric acid C24:0</i> | % | 0,2 | conform ISO 12966-2 (2011) + n) conform ISO 5508 (1990) |



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|---|------|----------------|--|
| <i>Nervonicacid (tetracosenoicacid) C24:1 (omega 9)</i> | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| sum of saturated fatty acids | % | 34,4 x) | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Total monounsaturated fatty acids | % | 44,6 x) | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Total polyunsaturated fatty acids | % | 21,1 x) | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |
| Total polyunsaturated (>4) fatty acids | % | <0,1 | conform ISO 12966-2 (2011) + conform ISO 5508 (1990) n) |

Other analysis

| | | | |
|--------------|-------|------------|----------------------------|
| Sulfur total | mg/kg | 116 | conform ASTM D 5453(BR) n) |
|--------------|-------|------------|----------------------------|

x) The sum calculation is done without taking into account the report limits.

Explanation: "<" or "n.q." represent the fact that the concentration of the analyte is below the limit of quantification (LOQ).

n) Not accredited