

threo-9,10-Dihydroxyhexadecanoic Biochemical

threo-9,10-Dihydroxyhexadecanoic Acid

CATALOG #
AAA60459

PRODUCT SYNONYMS

threo-9; 10-Dihydroxyhexadecanoic; 10-Dihydroxyhexadecanoic Acid; 9; 10-Dihydroxypalmitic acid; (+/-)-threo-9; 10-Dihydroxyhexadecanoic acid; 10-Dihydroxyhexadecanoic biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	>99%
Form/Format	Crystalline Solid
CAS Number	2027-46-5
Molecular Formula	C ₁₆ H ₃₂ O ₄
M.P.	88.5°-89.5°C
Identity	The identity of the material is based on its mode of preparation and on the mass spectrum of methyl ester/trimethylsilyl derivative showing e.g. strong ions at m/z 259 (Me ₃ SiO ⁺ =CH-(CH ₂) ₇ -COOCH ₃ and 187 (Me ₃ SiO ⁺ =CH-(CH ₂) ₅ -CH ₃) due to cleavage at the C-9/C-10 bond (attached). The stereochemistry follows from the synthesis used involving trans-hydroxylation of a cis olefin.
Purity Note	The purity was determined by GC-MS analysis of the methyl ester/trimethylsilyl derivative using a capillary column of 5% phenylmethylsiloxane (12 m, 0.33 um film thickness, carrier gas: helium). The temperature was raised from 80°C to 300°C at a rate of 10°C/min (GC-MS analysis attached).
Preparation and Storage	Store at 2-8°C.

ADDITIONAL INFORMATION

Product Categories/Family for threo-9,10-Dihydroxyhexadecanoic biochemical	100 Fatty Acids; 130 FA with Hydroxy (OH)
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NCBI AND UNIPROT INFORMATION

Molecular Weight	288.42
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/threo-910-dihydroxyhexadecanoic/60459>