PRODUCT DATA SHEET

Methyl nonadecenoate (cis-10)

Catalog number: 1206
Synonyms: C19:1 (cis-10) Methyl ester
Source: synthetic
Solubility: chloroform, hexane, ethyl ether
CAS number: 19788-74-0

Molecular Formula: C_{20}H_{38}O_{2}
Molecular Weight: 310
Storage: -20°C
Purity: TLC: 99%, GC >99%
TLC System: hexane/ethyl ether (80:20)
Appearance: liquid

Application Notes:
This high purity monounsaturated fatty acid methyl ester is ideal as a standard and for biological systems. Being an odd numbered long-chain fatty acid that is unusual in most biological systems it is often useful as an internal standard and for comparison against other fatty acids.\(^1\) cis-10-Nonadecenoic acid, as well as other monounsaturated fatty acids, demonstrates human p53 DNA binding domain inhibition.\(^2\) This fatty acid has a cis double bond at an even carbon (carbon 10) and therefore cannot be enzymatically degraded via the usual beta-oxidation pathway. Instead, a reductase-isomerase or an epimerase pathway must be employed in the metabolism of this fatty acid.\(^3\)

Selected References:

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