**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:** 311  
**Storage:** -20°C  
**Purity:** TLC: 99%, GC >99%  
**TLC System:** hexane/ethyl ether (80:20 by vol.)  
**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:**  

This product is to be used for research only. It is not intended for drug or diagnostic use, human consumption or to be used in food or food additives. Matreya assumes no liability for any use of this product by the end user. We believe the information, offered in good faith, is accurate.