



>>Entry Name: 9-Octadecenoic acid, 9C1

CAS Registry Number: 2027-47-6

Related CAS Registry Numbers(s): 142-17-6 143-18-0 544-60-5 557-07-3 1555-53-9 2462-84-2 2717-15-9 3687-46-5 10402-16-1

Extra CAS Registry Numbers(s): 26764-26-1

$\text{H}_3\text{C}(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$

Molecular Formula: $\text{C}_{18}\text{H}_{34}\text{O}_2$

Molecular Weight: 282.465

Accurate Mass: 282.25588

Percentage Composition: C 76.54%; H 12.13%; O 11.33%

>>Variant: (*E*)-form

Synonym(s): Elaidic acid

CAS Registry Number: 112-79-8

Extra CAS Registry Numbers(s): 27251-59-8

Molecular Formula: $\text{C}_{18}\text{H}_{34}\text{O}_2$

Molecular Weight: 282.465

Accurate Mass: 282.25588

Percentage Composition: C 76.54%; H 12.13%; O 11.33%

Biological Source: Minor constit. of plant oils

Physical Description: Cryst. (EtOH)

Melting Point: Mp 45-45.5°

Boiling Point: Bp₁₅ 234°. Bp_{0.8} 180-185°

Other Data: Dimorphic

Hazard & Toxicity: LD₅₀ (mus, ivn) 100 mg/kg

Aldrich: E30-4

Fluka: 45090

Sigma: E4637

>>Derivative: Me ester

Synonym(s): Methyl elaidate

CAS Registry Number: 1937-62-8

Molecular Formula: $\text{C}_{19}\text{H}_{36}\text{O}_2$

Molecular Weight: 296.492

Accurate Mass: 296.27153

Percentage Composition: C 76.97%; H 12.24%; O 10.79%

Physical Description: Oil

Melting Point: Mp 13-13.5°

Boiling Point: Bp₁₅ 213-215°

>>Derivative: Et ester

Synonym(s): Ethyl elaidate

CAS Registry Number: 6114-18-7

Molecular Formula: $\text{C}_{20}\text{H}_{38}\text{O}_2$

Molecular Weight: 310.519

Accurate Mass: 310.28718

Percentage Composition: C 77.36%; H 12.33%; O 10.30%

Physical Description: Oil

Melting Point: Mp 5.1°

Boiling Point: Bp₁₅ 217-219°

Sigma: E8377

>>Derivative: Propyl ester

Synonym(s): Propyl elaidate