



>>Entry Name: Tricosanoic acid

CAS Registry Number: 2433-96-7

$\text{H}_3\text{C}(\text{CH}_2)_{21}\text{COOH}$

Molecular Formula:  $\text{C}_{23}\text{H}_{46}\text{O}_2$

Molecular Weight: 354.615

Accurate Mass: 354.34978

Percentage Composition: C 77.90%; H 13.07%; O 9.02%

Biological Source: Constit. of some plant waxes and oils, e.g. *Ulex europaeus*, *Shorea maranti*, *Pinus contorta* and *Citrus bergamia*

Physical Description: Cryst. ( $\text{C}_6\text{H}_6$ )

Melting Point: Mp 79.1°

Aldrich: 21859-6

Fluka: 91470

Sigma: T1508

>>Derivative: Me ester

CAS Registry Number: 2433-97-8

Molecular Formula:  $\text{C}_{24}\text{H}_{48}\text{O}_2$

Molecular Weight: 368.642

Accurate Mass: 368.36543

Percentage Composition: C 78.20%; H 13.12%; O 8.68%

Physical Description: Cryst. ( $\text{Me}_2\text{CO}$ )

Melting Point: Mp 53.4°

Aldrich: 28734-2

Fluka: 91478

Sigma: T9389

Supelco: R42-0235

>>Derivative: Et ester

CAS Registry Number: 18281-07-7

Molecular Formula:  $\text{C}_{25}\text{H}_{50}\text{O}_2$

Molecular Weight: 382.669

Accurate Mass: 382.38108

Percentage Composition: C 78.47%; H 13.17%; O 8.36%

Physical Description: Cryst. ( $\text{Me}_2\text{CO}$ )

Melting Point: Mp 51.2°

>>Derivative: Nitrile

Molecular Formula:  $\text{C}_{23}\text{H}_{45}\text{N}$

Molecular Weight: 335.615

Accurate Mass: 335.355199

Percentage Composition: C 82.31%; H 13.51%; N 4.17%

Physical Description: Cryst. ( $\text{Me}_2\text{CO}$ )

Melting Point: Mp 53.5-54.5°

>>Derivative: Heptadecyl ester

Synonym(s): Heptadecyl tricosanoate

CAS Registry Number: 42233-32-9

Molecular Formula:  $\text{C}_{40}\text{H}_{80}\text{O}_2$

Molecular Weight: 593.071

Accurate Mass: 592.61583

Percentage Composition: C 81.01%; H 13.60%; O 5.40%

Biological Source: Constit. of *Citrullus colocynthis*

Physical Description: Cryst. ( $\text{MeOH}$ )

Melting Point: Mp 108°

Other Data: Incorrect struct. diag. in ref

References: