



>>Entry Name: Tetradecanoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): Myristic acid, 8CI. FEMA 2764

CAS Registry Number: 544-63-8

Related CAS Registry Numbers(s): 822-12-8 4086-70-8 13429-27-1 41669-40-3

$\text{H}_3\text{C}(\text{CH}_2)_{12}\text{COOH}$

Molecular Formula: $\text{C}_{14}\text{H}_{28}\text{O}_2$

Molecular Weight: 228.374

Accurate Mass: 228.20893

Percentage Composition: C 73.63%; H 12.36%; O 14.01%

Biological Source: Occurs widely in vegetable glycerides. Major component of the lipids of nutmeg (*Myristica moschata*)

Use/Importance: Defoaming agent, lubricant used in food processing

Physical Description: Cryst. (petrol)

Melting Point: Mp 54°

Boiling Point: Bp₁₀₀ 250.5°. Bp₁₆ 199°

Hazard & Toxicity: Skin and eye irritant. LD₅₀ (mus, ivn) 43 mg/kg

Aldrich: W27640-5

Fluka: 70082

Sigma: M3253

>>Derivative: Me ester

Synonym(s): FEMA 2722

CAS Registry Number: 124-10-7

Molecular Formula: $\text{C}_{15}\text{H}_{30}\text{O}_2$

Molecular Weight: 242.401

Accurate Mass: 242.22458

Percentage Composition: C 74.33%; H 12.47%; O 13.20%

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 18.5°

Boiling Point: Bp₇ 155-157°

Aldrich: W27220-5

Fluka: 70130

Sigma: M3378

>>Derivative: Et ester

Synonym(s): FEMA 2445

CAS Registry Number: 124-06-1

Molecular Formula: $\text{C}_{16}\text{H}_{32}\text{O}_2$

Molecular Weight: 256.428

Accurate Mass: 256.24023

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Use/Importance: Flavouring agent

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 12.3°

Boiling Point: Bp 295°. Bp₄ 139°

Aldrich: E3960-0

Fluka: 70090

Sigma: M8630