



>>Entry Name: 16-Methylheptadecanoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): Isostearic acid. Isooctadecanoic acid

CAS Registry Number: 2724-58-5

Related CAS Registry Numbers(s): 30399-84-9

$(\text{H}_3\text{C})_2\text{CH}(\text{CH}_2)_{14}\text{COOH}$

Molecular Formula: $\text{C}_{18}\text{H}_{36}\text{O}_2$

Molecular Weight: 284.481

Accurate Mass: 284.27153

Percentage Composition: C 76.00%; H 12.75%; O 11.25%

Biological Source: Occurs in adipose tissue, milk fat, liver and tobacco smoke. Commonly reported lipid component. Found in meat and fat of the one-humped camel (*Camelus dromedarius*)

Use/Importance: Has surfactant props.

Melting Point: Mp 69.5°

Sigma: M6281

>>Derivative: Amide

Molecular Formula: $\text{C}_{18}\text{H}_{37}\text{NO}$

Molecular Weight: 283.496

Accurate Mass: 283.287514

Percentage Composition: C 76.26%; H 13.15%; N 4.94%; O 5.64%

Melting Point: Mp 107.3°

References:

Fordyce, C.R., *J.A.C.S.*, 1933, **55**, 3368-3372, (*synth*)

Abrahamsson, S. *et al.*, *Acta Cryst. B*, 1972, **28**, 2562, (*cryst struct*)

Rawdah, T.N. *et al.*, *Meat Sci.*, 1994, **37**, 149-155, (*occur*)