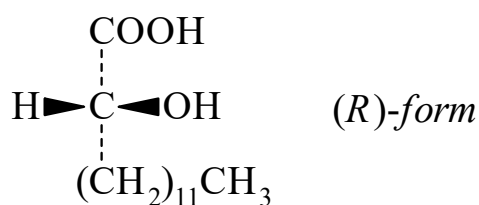




>>Entry Name: 2-Hydroxytetradecanoic acid

Synonym(s): 2-Hydroxymyristic acid



CAS Registry Number: 2507-55-3

Molecular Formula: C<sub>14</sub>H<sub>28</sub>O<sub>3</sub>

Molecular Weight: 244.373

Accurate Mass: 244.203845

Percentage Composition: C 68.81%; H 11.55%; O 19.64%

Rare Chemicals Library: S43919-3

Sigma: H6771

>>Variant: (R)-form

CAS Registry Number: 26632-17-7

Molecular Formula: C<sub>14</sub>H<sub>28</sub>O<sub>3</sub>

Molecular Weight: 244.373

Accurate Mass: 244.203845

Percentage Composition: C 68.81%; H 11.55%; O 19.64%

Biological Source: Present in wool wax and in brain cerebroside

Melting Point: Mp 88.2-88.5°

Optical Rotation: [α]<sub>D</sub> -3.1 (CHCl<sub>3</sub>)

>>Derivative: Me ester

Molecular Formula: C<sub>15</sub>H<sub>30</sub>O<sub>3</sub>

Molecular Weight: 258.4

Accurate Mass: 258.219495

Percentage Composition: C 69.72%; H 11.70%; O 18.58%

Melting Point: Mp 34.8-35°

Boiling Point: Bp<sub>1</sub> 133.5-136.5°

>>Variant: (S)-form

CAS Registry Number: 67253-09-2

Molecular Formula: C<sub>14</sub>H<sub>28</sub>O<sub>3</sub>

Molecular Weight: 244.373

Accurate Mass: 244.203845

Percentage Composition: C 68.81%; H 11.55%; O 19.64%

Biological Source: Occurs in *Salmonella* lipopolysaccharides

>>Variant: (±)-form

CAS Registry Number: 37639-48-8

Molecular Formula: C<sub>14</sub>H<sub>28</sub>O<sub>3</sub>

Molecular Weight: 244.373

Accurate Mass: 244.203845

Percentage Composition: C 68.81%; H 11.55%; O 19.64%

Biological Source: Occurs in the *Actinomycetales* bacteria

Melting Point: Mp 81-82°

>>Derivative: 4-Nitrobenzyl ester

Melting Point: Mp 67-68°