>>**Entry Name: 10-Hydroxydecanoic acid**
Synonym(s): 10-Hydroxycapric acid

CAS Registry Number: 1679-53-4
$HOCH_2(CH_2)_8COOH$

Molecular Formula: $C_{10}H_{20}O_3$
Molecular Weight: 188.266
Accurate Mass: 188.141245
Percentage Composition: C 63.80%; H 10.71%; O 25.49%
Physical Description: Cryst. (Et_2O/petrol)
Melting Point: Mp 75.5-76.5°

Aldrich: 37970-0
Sigma: H6261

>>**Derivative:** Me ester

CAS Registry Number: 2640-94-0
Molecular Formula: $C_{11}H_{22}O_3$
Molecular Weight: 202.293
Accurate Mass: 202.156895
Percentage Composition: C 65.31%; H 10.96%; O 23.73%
Melting Point: Mp 34-35°
Boiling Point: Bp_7 154°. Bp_3 145-147°
Aldrich: 44747-1

>>**Derivative:** Ac

Molecular Formula: $C_{12}H_{22}O_4$
Molecular Weight: 230.303
Accurate Mass: 230.15181
Percentage Composition: C 62.58%; H 9.63%; O 27.79%
Melting Point: Mp 36-37°
Boiling Point: Bp_{15} 213°. Bp_2 172-174°

>>**Derivative:** Lactone

Molecular Formula: $C_{10}H_{18}O_2$
Molecular Weight: 170.251
Accurate Mass: 170.13068
Percentage Composition: C 70.55%; H 10.66%; O 18.80%
Melting Point: Mp 6°
Boiling Point: Bp_{15} 113-115°

References:

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Lycan, W.H. *et al.*, *J.A.C.S.*, 1929, **51**, 625, *(synth)*
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