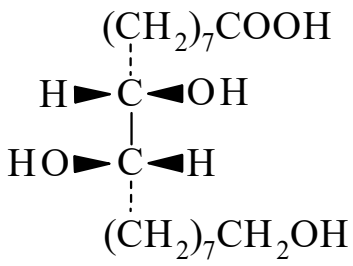
>>**Entry Name: 9,10,18-Trihydroxyoctadecanoic acid**
ENTRY UNDER REVIEW



(9*S*,10*S*)-*form*

CAS Registry Number: 496-86-6

Molecular Formula: $C_{18}H_{36}O_5$
Molecular Weight: 332.479
Accurate Mass: 332.256275
Percentage Composition: C 65.03%; H 10.91%; O 24.06%

>>**Variant:** (9*S*,10*S*)-form
Synonym(s): Phloionolic acid. Floionolic acid

CAS Registry Number: 17705-68-9

Molecular Formula: $C_{18}H_{36}O_5$
Molecular Weight: 332.479
Accurate Mass: 332.256275
Percentage Composition: C 65.03%; H 10.91%; O 24.06%
Biological Source: Constit. of cork and other plants, eg. olive (*Olea europaea*), *Agave americana*, *Chamaepeuce afra*, *Ligustrum japonicum*, apple wax and also cutins
Physical Description: Cryst. (MeOH)
Melting Point: Mp 104-105°
Optical Rotation: $[\alpha]_D$ +22.75
pKa Value: pK_{a1} 4.95
Other Data: The (9*R*,10*R*)-(–) form has also been prepared

>>**Derivative:** Me ester

CAS Registry Number: 36693-05-7
Molecular Formula: $C_{19}H_{38}O_5$
Molecular Weight: 346.506
Accurate Mass: 346.271925
Percentage Composition: C 65.86%; H 11.05%; O 23.09%
Melting Point: Mp 79-80.5°
Optical Rotation: $[\alpha]_D$ +21.52

>>**Variant:** (9*RS*,10*RS*)-form
Synonym(s): (±)-*threo*-form

CAS Registry Number: 583-86-8
Molecular Formula: $C_{18}H_{36}O_5$
Molecular Weight: 332.479
Accurate Mass: 332.256275
Percentage Composition: C 65.03%; H 10.91%; O 24.06%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 104°

>>**Variant:** (9*RS*,10*SR*)-form
Synonym(s): *erythro*-form. Isophloionolic acid

CAS Registry Number: 17673-81-3
Molecular Formula: $C_{18}H_{36}O_5$
Molecular Weight: 332.479
Accurate Mass: 332.256275
Percentage Composition: C 65.03%; H 10.91%; O 24.06%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 132-133°
Other Data: Opt. inactive (*meso*-)

References:

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