



>>Entry Name: Octanoic acid salts

Synonym(s): Octanoates. Caprylates

Related CAS Registry Numbers(s): 74-81-7 1912-83-0 4288-15-7 4696-54-2 4995-91-9 6107-56-8 6535-19-9 6535-20-2 18312-04-4

>>Derivative: Na salt

CAS Registry Number: 1984-06-1

Molecular Formula: $C_8H_{15}NaO_2$

Molecular Weight: 166.195

Accurate Mass: 166.096972

Percentage Composition: C 57.82%; H 9.10%; Na 13.83%; O 19.25%

Melting Point: Mp 119-120°

Density: d^{27} 1.21

>>Derivative: K salt

CAS Registry Number: 764-71-6

Molecular Formula: $C_8H_{15}KO_2$

Molecular Weight: 182.304

Accurate Mass: 182.070912

Percentage Composition: C 52.71%; H 8.29%; K 21.45%; O 17.55%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 200-210°. Mp 353°

>>Derivative: NH₄ salt

CAS Registry Number: 5972-76-9

Molecular Formula: $C_8H_{19}NO_2$

Molecular Weight: 161.244

Accurate Mass: 161.141579

Percentage Composition: C 59.59%; H 11.88%; N 8.69%; O 19.85%

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 70-85°

>>Derivative: Mg salt

CAS Registry Number: 3386-57-0

Molecular Formula: $C_{16}H_{30}MgO_4$

Molecular Weight: 310.716

Accurate Mass: 310.199452

Percentage Composition: C 61.85%; H 9.73%; Mg 7.82%; O 20.60%

>>Derivative: Al salt

CAS Registry Number: 6028-57-5

Molecular Formula: $C_{24}H_{45}AlO_6$

Molecular Weight: 456.597

Accurate Mass: 456.303154

Percentage Composition: C 63.13%; H 9.93%; Al 5.91%; O 21.02%

Physical Description: Cryst.

Melting Point: Mp 82-82.8°. Mp 120°

>>Derivative: Tl(III) salt

CAS Registry Number: 14332-13-9

Molecular Formula: $C_{24}H_{45}O_6Tl$

Molecular Weight: 633.999

Accurate Mass: 634.296016

Percentage Composition: C 45.47%; H 7.15%; O 15.14%; Tl 32.24%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 135-136°

>>Derivative: Pb(II) salt