>>**Entry Name: Dodecanoic acid salts**
Synonym(s): Dodecanoates. Laurates

Related CAS Registry Numbers(s): 629-25-4 2437-23-2 10124-65-9

General Statement: For parent acid see Dodecanoic acid CPX59-D
Use/Importance: Many salts have industrial uses as metal soaps

>>**Derivative:** Li salt

CAS Registry Number: 14622-13-0
Molecular Formula: $C_{12}H_{23}LiO_2$
Molecular Weight: 206.254
Accurate Mass: 206.185808
Percentage Composition: C 69.88%; H 11.24%; Li 3.37%; O 15.51%
Physical Description: Cryst.
Melting Point: Mp 229-230°

>>**Derivative:** Mg salt

CAS Registry Number: 4040-48-6
Molecular Formula: $C_{24}H_{46}MgO_4$
Molecular Weight: 422.93
Accurate Mass: 422.324652
Percentage Composition: C 68.16%; H 10.96%; Mg 5.75%; O 15.13%
Melting Point: Mp 75°. Mp 150.4°

>>**Derivative:** Ca salt

CAS Registry Number: 4696-56-4
Molecular Formula: $C_{24}H_{46}CaO_4$
Molecular Weight: 438.703
Accurate Mass: 438.302201
Percentage Composition: C 65.71%; H 10.57%; Ca 9.14%; O 14.59%
Physical Description: Needles
Melting Point: Mp 182-183°

>>**Derivative:** Ba salt

CAS Registry Number: 4696-57-5
Molecular Formula: $C_{24}H_{46}BaO_4$
Molecular Weight: 535.952
Accurate Mass: 536.244842
Percentage Composition: C 53.79%; H 8.65%; Ba 25.62%; O 11.94%
Physical Description: Cryst.
Melting Point: Mp 260°

>>**Derivative:** Al salt

CAS Registry Number: 7230-93-5
Molecular Formula: $C_{36}H_{69}AlO_6$
Molecular Weight: 624.919
Accurate Mass: 624.490954
Percentage Composition: C 69.19%; H 11.13%; Al 4.32%; O 15.36%

>>**Derivative:** Tl(*I*) salt

CAS Registry Number: 18993-52-7
Molecular Formula: $C_{12}H_{23}O_2Tl$
Molecular Weight: 403.696
Accurate Mass: 404.144206
Percentage Composition: C 35.70%; H 5.74%; O 7.93%; Tl 50.63%
Melting Point: Mp 127-130°