



>>Derivative: Ag(I) salt
Synonym(s): Silver benzoate

CAS Registry Number: 532-31-0
Molecular Formula: $C_7H_5AgO_2$
Molecular Weight: 228.984
Accurate Mass: 227.934047
Percentage Composition: C 36.72%; H 2.20%; Ag 47.11%; O 13.97%
Use/Importance: Catalyst for Wolff rearrangement of diazo ketones in homogeneous media
Physical Description: Light-sensitive powder

>>Derivative: Ca(II) salt
Synonym(s): Calcium benzoate

CAS Registry Number: 2090-05-3
Molecular Formula: $C_{14}H_{10}CaO_4$
Molecular Weight: 282.309
Accurate Mass: 282.020501
Percentage Composition: C 59.56%; H 3.57%; Ca 14.20%; O 22.67%
Use/Importance: Preservative, used in margarine

>>Derivative: Zn salt
Synonym(s): Zinc benzoate

CAS Registry Number: 553-72-0
Molecular Formula: $C_{14}H_{10}O_4Zn$
Molecular Weight: 307.621
Accurate Mass: 305.987055
Percentage Composition: C 54.66%; H 3.28%; O 20.80%; Zn 21.26%
Use/Importance: Used as corrosion inhibitor and antioxidant. Shows mechanoluminescence and piezoelectric behaviour

>>Derivative: Al(III) salt
Synonym(s): Aluminium benzoate

CAS Registry Number: 555-32-8
Molecular Formula: $C_{21}H_{15}AlO_6$
Molecular Weight: 390.327
Accurate Mass: 390.068404
Percentage Composition: C 64.62%; H 3.87%; Al 6.91%; O 24.59%
Use/Importance: Used as a stabiliser in PVC and as a cryst. nucleation modifier in polypropylene production

References:

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