



>>Entry Name: Benzoic acid salts

Synonym(s): Benzoates

>>Derivative: Li salt

Synonym(s): Lithium benzoate

CAS Registry Number: 553-54-8

Molecular Formula: $C_7H_5LiO_2$

Molecular Weight: 128.056

Accurate Mass: 128.044958

Percentage Composition: C 65.66%; H 3.94%; Li 5.42%; O 24.99%

Use/Importance: Used as a catalyst for curing epoxy resins and as a cryst. nucleation modifier in polypropylene production

Other Data: Mp >300°

>>Derivative: Na salt

Synonym(s): Sodium benzoate. E 211. FEMA 3025

CAS Registry Number: 532-32-1

Molecular Formula: $C_7H_5NaO_2$

Molecular Weight: 144.105

Accurate Mass: 144.018722

Percentage Composition: C 58.34%; H 3.50%; Na 15.95%; O 22.21%

Use/Importance: Used as a preservative in foods, cosmetics and pharmaceuticals, anticorrosion agent

Physical Description: Cryst.

Aldrich: 10916-9

Fluka: 71295

Sigma: B3420

Supelco: 4-7850

>>Derivative: K salt

Synonym(s): Potassium benzoate. E 212

CAS Registry Number: 582-25-2

Molecular Formula: $C_7H_5KO_2$

Molecular Weight: 160.214

Accurate Mass: 159.992662

Percentage Composition: C 52.48%; H 3.15%; K 24.40%; O 19.97%

Physical Description: Cryst.

Aldrich: 29000-9

Fluka: 60065

Sigma: B6416

>>Derivative: NH_4 salt

Synonym(s): Ammonium benzoate. Vulnoc AB

CAS Registry Number: 1863-63-4

Molecular Formula: $C_7H_9NO_2$

Molecular Weight: 139.154

Accurate Mass: 139.063329

Percentage Composition: C 60.42%; H 6.52%; N 10.07%; O 23.00%

Use/Importance: Preservative, urinary antiinfective, used in rubber vulcanisation

Melting Point: Mp 198°

Density: d 1.26

Other Data: Undergoes conversion to ammonium hydrogen benzoate on crystallisation from hot H_2O or on prolonged storage in the solid state