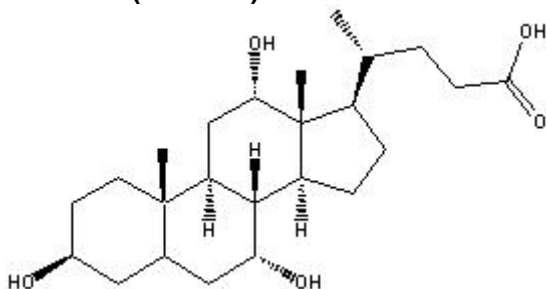


TECHNICAL INFORMATION

Catalog Number: 101383, 102897, 194637

Cholic Acid

Structure (free acid):



Molecular Formula:

Free Acid

Sodium Salt

C₂₄H₄₀O₅

C₂₄H₃₉O₅Na

Molecular Weight:

408.6

430.6

CAS

81-25-4

361-09-1

Synonyms: 3a,7a,12a-Trihydroxy-5b-cholan-24-ic acid; Cholalic acid; Sodium cholate

Physical Description: White to off-white powder

Description: A biochemical solubilizing agent (a non-ionic, non-denaturing detergent). Occurs in conjugation with glycine or taurine in bile of most vertebrates.¹ Used in the solubilization of membrane-bound proteins in their native state.⁵ A component for the preparation of liposomes.⁷

Critical Micelle Concentration (CMC): 14 mM (Detergents with high CMC values are generally easy to remove by dilution; detergents with low CMC values are advantageous for separations on the basis of molecular weight. As a general rule, detergents should be used at their CMC at a detergent-to-protein weight ratio of approximately ten .^{8,9}

Solubility:

Free Acid: Soluble in alcohol (30.56 g/L - clear to very slightly hazy, colorless to faint yellow solution), acetone (28.24 g/L), glacial acetic acid (152.12 g/L), solutions of alkali hydroxide, solutions of carbonates; moderately soluble in ether (1.22 g/L), chloroform (5.08 g/L); slightly soluble in water (0.28 g/L).¹

Sodium Salt: Soluble in ethanol or water (40 mg/ml - clear, colorless solution)

Availability:

Catalog Number	Description	Size
101383	Cholic acid, free acid	25 g 100 g 500 g 1 kg
102897	Cholic acid, sodium salt	10 g 25 g 100 g 500 g 1 kg 5 kg
194637	Cholic acid, sodium salt, cell culture reagent	10 g 25 g 100 g 500 g

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