Deoxycholic acid

Product Information

Product Number D 2510
Store at Room Temperature

Product Description
Molecular Formula: C_{24}H_{40}O_{4}
Molecular Weight: 392.6
CAS Number: 83-44-3
pK_a: 6.58
\( \lambda_{\text{max}}: 310 \text{ nm} \)
Extinction Coefficient: E^\text{MM} = 9.4
Specific Rotation: +55º
(1 g/100 ml in ethanol at 20 ºC)

The CMC is 0.21% (5 mM) and it is considered to be readily dialyzable.

Deoxycholic acid has been used in a modified procedure to recover 40-80% of a protein from a 1 µg/ml solution.

Deoxycholic acid forms molecular coordination compounds (so-called choleic acids) with many substances. Complexes with fatty acids have been studied extensively.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
The free acid is soluble at 0.24 g/L in water at 15 ºC, while the sodium salt is soluble at >333 g/L in water at 15 ºC. Therefore, pH control is very important to the use of this product. Aqueous solutions precipitate as the pH is lowered to 5.

References
1. The Merck Index, 12th Ed., Entry# 2946.

JLH/MWM/JRC 11/02

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