

[Jump to Website](#)

[Request Quote](#)

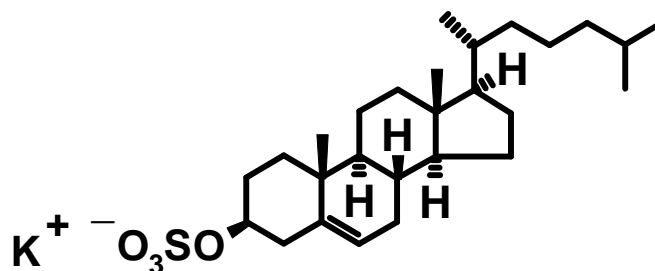
Product Specifications

Potassium Cholesterol Sulfate

CAS 6614-96-6

Syn: Cholesterol Potassium Sulfate; Cholesterol Sulfate, Potassium; KCS

Structure:



Mol. Formula
Source

C₂₇H₄₅KO₄S • H₂O
Synthetic

Mol. Wt.

522.83

Test	Specification
Appearance	White to off-white solid
Mp	219-221°C (<i>dec.</i>)
Purity [‡]	≥ 98%
Sp. Rot., [α] _D (DMF; <i>l</i> = 2 dm, <i>c</i> = 5.38 mg/mL)	-22.7° ~ -24.7°
Water Content (K-F)	< 4.5%
Loss on Drying (2hr @ 45°C)	< 0.5%
Free Cholesterol	< 3.0% (typically ~2%)
pH (1% Suspension in water)	7~8
Cl	< 0.20%
Heavy Metals	< 10 ppm

- cont'd -

- cont'd -

Test	Specification
Pb	< 10 ppm
As	< 3 ppm
Hg	< 1 ppm
Particle Size	50 mesh
Foreign Particle Content	Free of foreign particles
Microbiological Specification	
Total Aerobic	< 100 CFU/g
Includes:	
<i>Gram Negative</i>	Negative
<i>Staphylococcus aureus</i>	Negative
<i>Candida albicans</i>	Negative
<i>Aspergillus species</i>	Negative
Mold and Yeast	≤100 CFU/g

Storage: Maintain in cool, dry cool containment.

$$\begin{aligned} \text{†Purity} &= \frac{[\text{Specific Rotation of Manufactured Sample} - (\text{Specific Rotation of "Pure" Cholesterol} \times \text{Free Cholesterol Content})] \times 100}{\text{Specific Rotation of "Pure" KCS}} \\ \text{calculated as} & \end{aligned}$$

Note: Specific Rotation of "Pure" KCS = -23.1° , Specific Rotation of "Pure" Cholesterol = -32.8°