



TECHNICAL DATA SHEET

Product Identification

Chemical Name: Silymarin

Synonyms: Milk Thistle Extract, Silybum marianum extract

CAS No.: 65666-07-1

EINECS No.: 265-076-0

Molecular Formula: $C_{25}H_{22}O_{10}$ (main component – Silybin)

Molecular Weight: ~482.44 g/mol

EC Code: Not applicable (mixture)

Description

Silymarin is a standardized extract derived from the seeds of Silybum marianum (milk thistle). It is widely recognized for its antioxidant and hepatoprotective properties, mainly composed of flavonolignans such as silybin, silydianin, and silychristin.

Specifications

Parameter	Specification
Appearance	Yellow-brown fine powder
Silymarin Content (by UV)	$\geq 80\%$
Silymarin Content (by HPLC)	$\geq 45\%$
Loss on Drying	$\leq 5.0\%$
Sulfated Ash	$\leq 0.5\%$
Particle Size	$\geq 90\%$ pass through 80 mesh
Heavy Metals	≤ 20 ppm
Residual Solvent (Ethanol)	≤ 5000 ppm (comply with CP/USP/EP)
N-Hexane	$\leq 0.029\%$
Methanol	$\leq 0.3\%$
Acetone	$\leq 0.5\%$
Ethanol	$\leq 0.5\%$
Microbiological Tests	
Total Plate Count	$\leq 1,000$ CFU/g
Yeast & Mold	≤ 100 CFU/g
Escherichia coli	Negative

Applications

Hepatoprotective formulations (liver health supplements)
Antioxidant supplements
Traditional herbal medicine
Cosmetics and nutraceuticals

Packaging

25 kg per drum, inner with double PE bags

Storage & Shelf Life

Store in a cool, dry place away from direct sunlight

Shelf life: 24 months when properly stored in original packaging

Country of Origin

China

