



Citrus Aurantium Extract – Technical Data Sheet (90% Hesperidin)

INCI Name	Citrus Aurantium Fruit Extract
Botanical Source	Citrus aurantium L. – Fruit
Specification	90% Hesperidin (HPLC)
Physical Form	Off-white to pale yellow powder
Smell	Characteristic citrus aroma
Solubility in Water	~3–6 g/L at 50 °C with stirring
Solubility in Oil	Practically insoluble
Recommended Solubilization Method	<ul style="list-style-type: none">- Dissolve in warm water (~50 °C)- Stir continuously for 5–10 minutes- Use filtration if clarity is needed
Cosmetic Functions	Antioxidant, skin conditioning, soothing
Recommended Use Level	0.5–2% (in water phase)
Preservation/Handling	Store sealed in a cool, dry place protected from light
Shelf Life	24 months in unopened original packaging under standard conditions
Toxicity Criteria	
NOAEL	1000 mg/kg bw/day (oral, rat study, hesperidin extract)
LD50	>2000 mg/kg bw (oral, rat)
Genotoxicity	No mutagenicity reported in published studies