



## Grape Seed Extract – Technical Data Sheet (70% HPLC / 95% UV)

<b>INCI Name</b>	Vitis Vinifera Seed Extract
<b>Botanical Source</b>	Vitis vinifera L. – Seed
<b>Specification</b>	70% Oligomeric Proanthocyanidins (HPLC), 95% Proanthocyanidins (UV)
<b>Physical Form</b>	Red-brown to purple fine powder
<b>Smell</b>	Mild, slightly astringent
<b>Solubility in Water</b>	~15–25 g/L at 45–60 °C with stirring
<b>Solubility in Oil</b>	Insoluble
<b>Recommended Solubilization Method</b>	<ul style="list-style-type: none"><li>- Dissolve in warm deionized water (~50–60 °C)</li><li>- Stir for 5–10 minutes</li><li>- Adjust pH to 3–5 for best stability</li><li>- Filter if necessary</li></ul>
<b>Cosmetic Functions</b>	Antioxidant, skin conditioning, astringent
<b>Recommended Use Level</b>	0.5–2% (in water phase)
<b>Preservation/Handling</b>	Store in sealed packaging in a dry, cool, dark place
<b>Shelf Life</b>	24 months in original unopened packaging under proper storage
<b>Toxicity Criteria</b>	
NOAEL	1400 mg/kg bw/day (oral, rat, 90-day study, OPC-rich extract)
LD50	>5000 mg/kg bw (oral, rat)
Genotoxicity	No mutagenic or genotoxic effects observed in published studies