



## Pomegranate Peel Extract – Technical Data Sheet (40% Ellagic Acid)

<b>INCI Name</b>	Punica Granatum Peel Extract
<b>Botanical Source</b>	Punica granatum L. – Peel
<b>Specification</b>	40% Ellagic Acid (UV)
<b>Physical Form</b>	Light brown to brown fine powder
<b>Smell</b>	Characteristic tart, slightly fruity odor
<b>Solubility in Water</b>	~10–15 g/L at 50 °C with stirring
<b>Solubility in Oil</b>	Practically insoluble
<b>Recommended Solubilization Method</b>	<ul style="list-style-type: none"><li>- Disperse in warm deionized water (~50–60 °C)</li><li>- Stir for 5–10 minutes</li><li>- Filter if needed to clarify</li></ul>
<b>Cosmetic Functions</b>	Antioxidant, astringent, skin brightening
<b>Recommended Use Level</b>	0.5–2% (in water phase)
<b>Preservation/Handling</b>	Store in tightly closed containers in a cool, dry, dark place
<b>Shelf Life</b>	24 months in original unopened packaging
<b>Toxicity Criteria</b>	
NOAEL	600 mg/kg bw/day (oral, rat, ellagic acid extract)
LD50	>2000 mg/kg bw (oral, rat)
Genotoxicity	No mutagenic effects reported in standard toxicity studies