### PRODUCT INFORMATION

**Patchouli Alcohol**  
*Item No. 18450*

<table>
<thead>
<tr>
<th>CAS Registry No.: 5986-55-0</th>
<th><strong>Formal Name:</strong> (1R,4S,4aS,6R,8aS)-octahydro-4,8a,9,9-tetramethyl-1,6-methanonaphthalen-1(2H)-ol</th>
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<tr>
<td><strong>Synonyms:</strong> (-)-Patchouli Alcohol, Patchoulol</td>
<td><strong>MF:</strong> $C_{15}H_{26}O$</td>
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<td><strong>FW:</strong> 222.4</td>
<td><strong>Purity:</strong> $\geq 95%$</td>
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<td><strong>Stability:</strong> $\geq 2$ years at -20°C</td>
<td><strong>Supplied as:</strong> A crystalline solid</td>
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#### Laboratory Procedures

For long term storage, we suggest that patchouli alcohol be stored as supplied at -20°C. It should be stable for at least two years.

Patchouli alcohol is supplied as a crystalline solid. A stock solution may be made by dissolving the patchouli alcohol in the solvent of choice. Patchouli alcohol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of patchouli alcohol in ethanol and DMSO is approximately 16 mg/ml and approximately 25 mg/ml in DMF.

Patchouli alcohol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, patchouli alcohol should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Patchouli alcohol has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

#### Description

*Pogostemon* (patchouli) leaves and their extracted oils are used in perfumes and in traditional medicine to relieve sunstroke, stop vomiting, and increase appetite.1 Patchouli alcohol is a sesquiterpene alcohol found in patchouli oil. It has antibacterial, antifungal, and antiviral actions.1-3 Patchouli alcohol also suppresses inflammation induced by lipopolysaccharide in vivo.4 Topical application of patchouli alcohol accelerates recovery from ultraviolet irradiation-induced skin damage through antioxidant and anti-inflammatory effects.5

#### References