# PRODUCT INFORMATION

## Geranylgeranyl Alcohol

*Item No. 13272*

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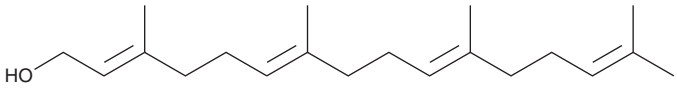
|---|---|
| **CAS Registry No.:** | 24034-73-9 |
| **Formal Name:** | 3,7,11,15-tetramethyl-2E,6E,10E,14-hexadecatetraen-1-ol |
| **Synonyms:** | Geranylgeraniol, GG Alcohol |
| **MF:** | $C_{20}H_{34}O$ |
| **FW:** | 290.5 |
| **Purity:** | ≥85% |
| **Supplied as:** | A neat oil |
| **Storage:** | -80°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Geranylgeranyl alcohol is supplied as a neat oil. A stock solution may be made by dissolving the geranylgeranyl alcohol in the solvent of choice. Geranylgeranyl alcohol is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of geranylgeranyl alcohol in these solvents is approximately 30 mg/ml.

Geranylgeranyl alcohol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, geranylgeranyl alcohol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Geranylgeranyl alcohol has a solubility of approximately 0.33 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Geranylgeranyl alcohol is a diterpenoid produced through the isoprenoid pathway. It can be phosphorylated to give geranylgeranyl pyrophosphate (GGPP; Item No. 63330), a precursor for geranylgeranylation, a form of protein prenylation.[1] GGPP is also an intermediate in biosynthetic pathways for isoprenoids, carotenoids, plant hormones, and antibiotics.

### Reference

1. McTaggart, S.J. Isoprenylated proteins. *Cell Mol. Life Sci.* **63(3)**, 255-267 (2006).

**WARNING**
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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