(+)-ar-Turmerone

**Item No. 11759**

**CAS Registry No.**: 532-65-0
**Formal Name**: 2-methyl-6S-(4-methylphenyl)-2-hepten-4-one
**Synonym**: (S)(+)-ar-Turmerone
**MF**: C_{15}H_{20}O
**FW**: 216.3
**Purity**: ≥95%
**Supplied as**: A solution in ethanol
**Storage**: -20°C
**Stability**: ≥1 year

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

**Description**

(+)-ar-Turmerone is an aromatic compound from the rhizomes of *C. longa*, a perennial plant of the ginger family, *Zingiberaceae*, commonly used in traditional Asian medicines.\(^1\) It is also a major constituent of essential oil of turmeric, which is known for its antioxidant, anti-inflammatory, and anti-nociceptive properties.\(^2\) Two structurally and physiologically distinct forms of turmerone have been isolated from *C. longa*, (+)-ar-Turmerone and α-turmerone.\(^1\) (+)-ar-Turmerone stimulates the proliferation of peripheral blood mononuclear cells and increases the production of TNF-α, IL-2, and IFN-γ.\(^1\) It also promotes the maturation of dendritic cells and induces the proliferation of neural stem cells both in vitro and in vivo.\(^3,4\)

**References**