Product Name: Valerenic acid  
Catalog No.: 3048  
Batch No.: 1  
CAS Number: 3569-10-6  
IUPAC Name: \((2E)-3-[(4S,7R,7aR)-2,4,5,6,7,7a-Hexahydro-3,7-dimethyl-1H-inden-4-yl]-2-methyl-2-propenoic\) acid

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \(C_{15}H_{22}O_2\)
- **Batch Molecular Weight:** 234.33
- **Physical Appearance:** Colourless lyophilised solid
- **Solubility:** Soluble in ethanol
- **Storage:** Store at +4°C
- **Batch Molecular Structure:**

![Batch Molecular Structure](image)

2. ANALYTICAL DATA

- **Melting Point:** Between 133 - 136°C
- **HPLC:** Shows >99.8% purity
- **Mass Spectrum:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Positive allosteric modulator of GABA_\text{A} receptors that displays preference for receptors containing \(\beta_2\) or \(\beta_3\) subunits. Directly activates the receptor and blocks the channel at high concentrations. Displays sedative, anticonvulsant and anxiolytic activity in vivo. Also acts as a partial agonist of 5-HT_\text{5A} receptors.

Physical and Chemical Properties:
Batch Molecular Formula: C_{15}H_{22}O_2
Batch Molecular Weight: 234.33
Physical Appearance: Colourless lyophilised solid
Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
Soluble in ethanol
This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDs: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONs: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: