

Certificate of Analysis

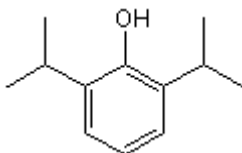
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Product Name: Propofol
CAS Number: 2078-54-8
IUPAC Name: 2,6-Diisopropylphenol

Catalog No.: 0939 **Batch No.:** 3
EC Number: 218-206-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₈O
Batch Molecular Weight: 178.27
Physical Appearance: Colourless liquid
Solubility: ethanol to 100 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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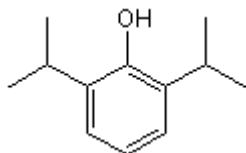
Description:

Intravenous general anesthetic and hypnotic with a mode of action which includes potentiation of GABA-mediated inhibitory synaptic transmission, direct activation of the GABA_A receptor and inhibition of glutamate receptor mediated excitatory synaptic transmission. Also potentiates P2X₄ receptor-mediated currents in P2X₄-HEK293 cells.

Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM
 DMSO to 100 mM
 This product is supplied as a lyophilised oil and may be very hard to visualise. 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:

Takahashi et al (1994) The effects of propofol and enflurane on single calcium channel currents of guinea-pig isolated ventricular myocytes. *Br.J.Pharmacol.* **111** 1147. PMID: 8032601.

Orser et al (1995) Inhibition by propofol (2,6-di-isopropylphenol) of the N-methyl-D-aspartate subtype of glutamate receptor in cultured hippocampal neurones. *Br.J.Pharmacol.* **116** 1761. PMID: 8528557.

Nadeson and Goodchild (1997) Antinociceptive properties of propofol: involvement of spinal cord γ-aminobutyric acid_A receptors. *J.Pharmacol.Exp.Ther.* **282** 1181. PMID: 9316824.

Tomioaka et al (2000) Propofol potentiates ATP-activated currents of recombinant P2X₄ receptor channels expressed in human embryonic kidney 293 cells. *Neurosci.Lett.* **284** 167. PMID: 10773425.

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