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**Product Data Sheet**

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Product Name: 3-Pentanol

Cat. No.: GC61682

**Chemical Properties**

Cas. No. 584-02-1

SMILES CCC(O)CC

Formula C<sub>5</sub>H<sub>12</sub>O

M.Wt 88.15

Solubility DMSO : 100 mg/mL (1134.43 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

3-Pentanol is an active organic compound produced by plants and is a component of emitted insect sex pheromones. 3-pentanol elicits plant immunity against microbial pathogens and an insect pest in crop plants[1].

[1]. Geun C Song, et al. Gaseous 3-pentanol primes plant immunity against a bacterial speck pathogen, *Pseudomonas syringae* pv. tomato via salicylic acid and jasmonic acid-dependent signaling pathways in *Arabidopsis*. *Front Plant Sci.* 2015 Oct 6;6:821.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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