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## Product Data Sheet

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Product Name: N-Decyl-N,N-dimethyldecan-1-aminium chloride

Cat. No.: GC64165

### Chemical Properties

Cas. No. 7173-51-5

Formula C<sub>22</sub>H<sub>48</sub>ClN

M.Wt 362.08

Solubility DMSO : 100 mg/mL (276.18 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

N-Decyl-N,N-dimethyldecan-1-aminium chloride (Didecyldimethylammonium chloride) is a dialkyl-quaternary ammonium compound that is used in numerous products for its bactericidal, virucidal and fungicidal properties[1].

N-Decyl-N,N-dimethyldecan-1-aminium chloride (Didecyldimethylammonium chloride, DDAC) is a broad-spectrum bactericidal and fungicidal biocide that exhibits antimicrobial activity against several pathogens such as Staphylococcus aureus, Escherichia coli, Pseudomonas aeruginosa, Legionella pneumophila, Stachybotrys chartarum and enveloped and non-enveloped viruses[1].

[1]. Anderson SE, et al. Evaluation of the irritancy and hypersensitivity potential following topical application of didecyldimethylammonium chloride. J Immunotoxicol. 2016;13(4):557-566.

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

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