

Product Data Sheet

Product Name: Tetrahydro-4H-pyran-4-one

Cat. No.: GD21699

Chemical Properties

Cas. No. 29943-42-8

Formula C₅H₈O₂

M.Wt 100.116

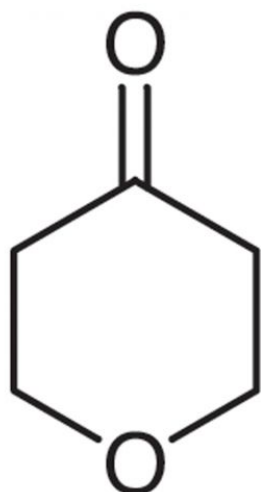
Solubility DMSO : 100 mg/mL (998.80 mM; Need ultrasonic)

Storage 2-8°C argon filling

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

Dihydro-2H-pyran-4(3H)-one is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

It is employed in the preparation of 4-methoxytetrahydropyran-4-yl protecting group, synthesis of symmetric tetra substituted methanes. The methyl enol ether is a useful protecting agent for alcohols, eg in nucleotide synthesis, with the advantage over 3,4-Dihydro-2H-pyran. It is also employed in a study of the enantioselective alpha-aminoxylation of ketones with nitrosobenzene and L-proline in an ionic liquid. It undergoes condensation reactions in the preparation of dipeptides and

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spiroimidazolones. It is also employed in Wittig reactions for the synthesis of penicillins and in a ring of vitamin D₃.

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