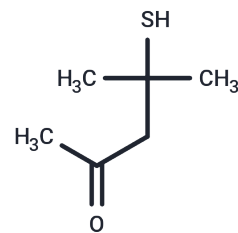


4-methyl-4-sulfanylpentan-2-one

Chemical Properties

CAS No. :	19872-52-7
Formula:	C ₆ H ₁₂ O _S
Molecular Weight:	132.22
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	4-methyl-4-sulfanylpentan-2-one (4-Mercapto-4-methyl-2-pentanone) is a ketone containing a thio group and is commonly used in flavor preparation, organic synthesis and biochemical experiments.
Targets(IC50)	Others
In vitro	Methods: A stable isotope dilution method was developed for the quantitative determination of 4-methyl-4-sulfanylpentan-2-one (4MSP) in hops. The method involved the use of 4-(¹³ C)methyl-4-sulfanyl(1,3,5- ¹³ C ₃)pentan-2-one as an internal standard, selective separation of hop thiols on mercaptated agarose, and gas chromatography (GC) × gas chromatography-time of flight mass spectrometry (GC-TOFMS) analysis. Results: 4MSP concentrations ranged from less than 1 to 114 µg/kg. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.5632 mL	37.8158 mL	75.6315 mL
5 mM	1.5126 mL	7.5632 mL	15.1263 mL
10 mM	0.7563 mL	3.7816 mL	7.5632 mL
50 mM	0.1513 mL	0.7563 mL	1.5126 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Reglitz K, et al. Quantitation of 4-Methyl-4-sulfanylpentan-2-one (4MSP) in Hops by a Stable Isotope Dilution Assay in Combination with GC×GC-TOFMS: Method Development and Application To Study the Influence of Variety, Provenance, Harvest Year, and Processing on 4MSP Concentrations. J Agric Food Chem. 2017 Mar 22;65(11):2364-2372.

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