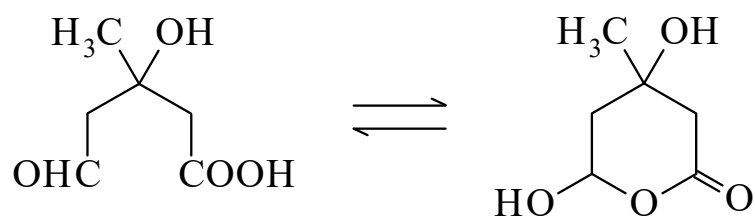




>>Entry Name: 3-Hydroxy-3-methyl-5-oxopentanoic acid, 9CI

Synonym(s): 3-Hydroxy-3-methylglutaraldehydic acid. Tetrahydro-4,6-dihydroxy-4-methyl-2H-pyran-2-one. Mevaldic acid



CAS Registry Number: 541-07-1

Related CAS Registry Numbers(s): 10023-76-4 10057-13-3

Molecular Formula: C₆H₁₀O₄

Molecular Weight: 146.143

Accurate Mass: 146.05791

Percentage Composition: C 49.31%; H 6.90%; O 43.79%

Use/Importance: An intermediate in mevalonate biosynth.

Other Data: Unstable and reactive; stable for several h in H₂O at pH 7

References:

Shunk, C.H. *et al.*, *J.A.C.S.*, 1957, **79**, 3294, (*synth*)

Knauss, H. *et al.*, *J. Lipid Res.*, 1962, **3**, 197, (*synth*)

Donninger, C. *et al.*, *Proc. R. Soc. London, B*, 1965, **163**, 465, (*synth*)