

## Product Data Sheet

Product Name: Carbolactone

Cat. No.: GC47039

### Chemical Properties

Cas. No. 155443-55-3

SMILES O=C1O[C@]([C@@]2(C)[C@@]3([H])CC[C@]2([H])[C@@H]1C)([H])CC4=C3CC[C@]5([H])[C@]4(C)CC[C@H](O)C5(C)C

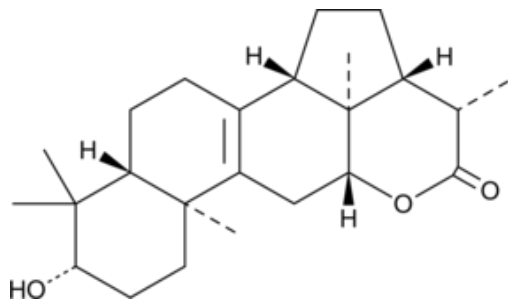
Formula C<sub>24</sub>H<sub>36</sub>O<sub>3</sub> M.Wt 372.5

Solubility Dichloromethane: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble  
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

Carbolactone is a fungal metabolite originally isolated from *Sporormiella australis* that has fungicidal and herbicidal activities.<sup>1</sup> It is active against the phytopathogenic fungi *U. violacea* and *E. repens*, but not the bacteria *B. megaterium* or *E. coli*, when used at concentrations of 6.5, 65, and 650 µg/ml in an agar diffusion assay. Carbolactone also inhibits germination of the cress *L. sativum*.

1. Krohn, K., Ludewig, K., Jones, P.G., et al. Biologically active metabolites from fungi, 21 an antifungal and herbicidal lanostane lactone from *Sporormiella australis* Nat. Prod. Lett. 1(1)29-32(2006)

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

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