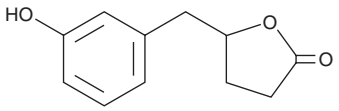
PRODUCT INFORMATION

5-(3'-Hydroxyphenyl)-γ-Valerolactone

Item No. 38519

CAS Registry No.: 21618-91-7
Formal Name: dihydro-5-[(3-hydroxyphenyl)methyl]-2(3H)-furanone
Synonyms: δ-(3'-Hydroxyphenyl)-γ-Valerolactone,
5-(3'-Hydroxyphenyl)-γ-VL,
δ-(3'-Hydroxyphenyl)-γ-VL, (3'-hydroxy)-PVL
MF: $C_{11}H_{12}O_3$
FW: 192.2
Purity: ≥95%
UV/Vis.: λ_{max}: 217 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

5-(3'-Hydroxyphenyl)-γ-valerolactone is supplied as a solid. A stock solution may be made by dissolving the 5-(3'-hydroxyphenyl)-γ-valerolactone in the solvent of choice, which should be purged with an inert gas. 5-(3'-Hydroxyphenyl)-γ-valerolactone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 5-(3'-hydroxyphenyl)-γ-valerolactone in DMSO and DMF is approximately 10 mg/ml and approximately 1 mg/ml in ethanol.

Description

5-(3'-Hydroxyphenyl)-γ-valerolactone is a metabolite of various polyphenols, including (+)-catechin (Item No. 70940) and (−)-epicatechin (Item No. 11807).[1] It is formed from these polyphenols by gut microbiota.

Reference

1. Di Pede, G., Bresciani, L., Brighenti, F., *et al.* In vitro faecal fermentation of monomeric and oligomeric flavan-3-ols: Catabolic pathways and stoichiometry. *Mol. Nutr. Food Res.* **66(21)**, e2101090 (2022).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 05/09/2023

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM