



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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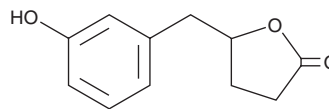
# PRODUCT INFORMATION



## 5-(3'-Hydroxyphenyl)- $\gamma$ -Valerolactone

Item No. 38519

**CAS Registry No.:** 21618-91-7  
**Formal Name:** dihydro-5-[(3-hydroxyphenyl)methyl]-2(3H)-furanone  
**Synonyms:**  $\delta$ -(3'-Hydroxyphenyl)- $\gamma$ -Valerolactone,  
5-(3'-Hydroxyphenyl)- $\gamma$ -VL,  
 $\delta$ -(3'-Hydroxyphenyl)- $\gamma$ -VL, (3'-hydroxy)-PVL  
**MF:** C<sub>11</sub>H<sub>12</sub>O<sub>3</sub>  
**FW:** 192.2  
**Purity:**  $\geq$ 95%  
**UV/Vis.:**  $\lambda_{\text{max}}$ : 217 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:**  $\geq$ 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)- $\gamma$ -valerolactone is supplied as a solid. A stock solution may be made by dissolving the 5-(3'-hydroxyphenyl)- $\gamma$ -valerolactone in the solvent of choice, which should be purged with an inert gas. 5-(3'-Hydroxyphenyl)- $\gamma$ -valerolactone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 5-(3'-hydroxyphenyl)- $\gamma$ -valerolactone in DMSO and DMF is approximately 10 mg/ml and approximately 1 mg/ml in ethanol.

### Description

5-(3'-Hydroxyphenyl)- $\gamma$ -valerolactone is a metabolite of various polyphenols, including (+)-catechin (Item No. 70940) and (-)-epicatechin (Item No. 11807).<sup>1</sup> 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.

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