



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

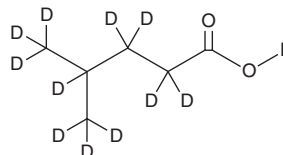
PRODUCT INFORMATION



4-Methylpentanoic Acid-d₁₂

Item No. 27873

CAS Registry No.: 116287-57-1
Formal Name: 4-(methyl-d₃)-pentanoic-2,2,3,3,4,5,5,5-d₈ acid-d
Synonyms: Isobutylacetic Acid-d₁₂, Isocaproic Acid-d₁₂, Isohexoic Acid-d₁₂, 4-Methylvaleric Acid-d₁₂
MF: C₆D₁₂O₂
FW: 128.2
Chemical Purity: ≥98% (4-Methylpentanoic Acid)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₁₂); ≤1% d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

4-Methylpentanoic acid-d₁₂ is intended for use as an internal standard for the quantification of 4-methylpentanoic acid by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

4-Methylpentanoic acid-d₁₂ is supplied as a solid. A stock solution may be made by dissolving the 4-methylpentanoic acid-d₁₂ in the solvent of choice. 4-Methylpentanoic acid-d₁₂ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 4-methylpentanoic acid-d₁₂ in these solvents is approximately 10 mg/ml.

Description

4-Methylpentanoic acid is a short-chain volatile fatty acid that is produced during wastewater treatment using anaerobic membrane bioreactors.¹ It is a synthetic intermediate in the synthesis of biodiesel, polyhydroxyalkanoate (PHA) biopolymers, and various organic compounds.

Reference

1. Khan, M.A., Ngo, H.H., Guo, W., *et al.* Selective production of volatile fatty acids at different pH in an anaerobic membrane bioreactor. *Bioresour. Technol.* **283**, 120-128 (2019).

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, 07/23/2019

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