



**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



PRODUCT INFORMATION



Deltamethrin Item No. 24172

CAS Registry No.: 52918-63-5

Formal Name: (1R,3R)-3-(2,2-dibromoethyl)-2,2-dimethyl-cyclopropanecarboxylic acid, (S)-cyano(3-phenoxyphenyl)methyl ester

Synonym: Decamethrin

MF: C₂₂H₁₉Br₂NO₃

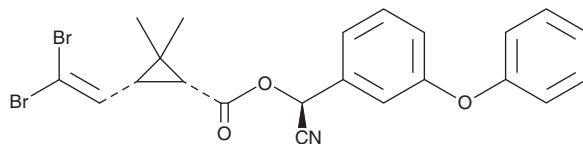
FW: 505.2

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



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

Laboratory Procedures

Deltamethrin is supplied as a solid. A stock solution may be made by dissolving the deltamethrin in the solvent of choice, which should be purged with an inert gas. Deltamethrin is slightly soluble in chloroform.

Description

Deltamethrin is a type II pyrethroid insecticide and a modulator of voltage-gated sodium channels (Na_v).¹ It activates Na_v1.8 channels and induces a tail current delay in *Xenopus* oocytes expressing the rat channel when used at a concentration of 10 µM. Deltamethrin induces mortality in *A. sinensis* (LC₅₀ = 4.522 ppm) and *T. urticae* (LC₅₀ = 0.06 g/L).^{2,3} It decreases sperm count, motility, and viability and increases the percentage of morphologically abnormal sperm in rats when administered at a dose of 5 mg/kg.⁴ Formulations containing deltamethrin have been used as domestic and agricultural insecticides.

References

- Choi, J.S. and Soderlund, D.M. Structure-activity relationships for the action of 11 pyrethroid insecticides on rat Na_v1.8 sodium channels expressed in *Xenopus* oocytes. *Toxicol. Appl. Pharmacol.* **211**(3), 233-244 (2006).
- Chang, K.-S., Yoo, D.-H., Shin, E.-H., et al. Susceptibility and resistance of field populations of *Anopheles sinensis* (Diptera: Culicidae) collected from Paju to 13 insecticides. *Osong Public Health Res. Perspect.* **4**(2), 76-80 (2013).
- Penman, D.R., Chapman, R.B., and Bowie, M.H. Direct toxicity and repellent activity of pyrethroids against *Tetranychus urticae* (Acari: Tetranychidae). *J. Econ. Entomol.* **79**(5), 1183-1187 (1986).
- Abdallah, F.B., Slima, A.B., Dammak, I., et al. Comparative effects of dimethoate and deltamethrin on reproductive system in male mice. *Andrologia* **42**(3), 182-186 (2010).

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, 12/19/2022

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