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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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) 

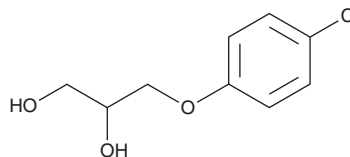
PRODUCT INFORMATION



Chlorphenesin

Item No. 36169

CAS Registry No.: 104-29-0
Formal Name: 3-(4-chlorophenoxy)-1,2-propanediol
Synonyms: (±)-*p*-Chlorphenesin, NSC 6401
MF: C₉H₁₁ClO₃
FW: 202.6
Purity: ≥95%
UV/Vis.: λ_{max}: 229, 282, 289 nm
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

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

Description

Chlorphenesin is a synthetic preservative.¹ It is active against various strains of *Pseudomonas* and *Burkholderia* when used in combination with methylparaben (MICs = 5-10 g/L). Chlorphenesin (0.001-0.1%) is cytotoxic to immortalized human meibomian gland epithelial cells.² It prevents homologous passive cutaneous anaphylaxis in rats (ID₅₀ = 220 mg/kg).³ Formulations containing chlorphenesin have been used as biocides in cosmetic products.

References

1. Labadie, C., Cerutti, C., and Carlin, C. Fate and control of pathogenic and spoilage micro-organisms in orange blossom (*Citrus aurantium*) and rose flower (*Rosa centifolia*) hydrosols. *J. Appl. Microbiol.* **121**(6), 1568-1579 (2016).
2. Wang, J., Liu, Y., Kam, W.R., et al. Toxicity of the cosmetic preservatives parabens, phenoxyethanol and chlorphenesin on human meibomian gland epithelial cells. *Exp. Eye Res.* **196**, 108057 (2020).
3. Koda, A., Nagai, H., Watanabe, S., et al. Inhibition of hypersensitivity reactions by a new drug, N(3',4'-dimethoxycinnamoyl) anthranilic acid (N-5'). *J. Allergy Clin. Immunol.* **57**(5), 396-407 (1975).

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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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