

Chemical Factsheet

Vinclozolin

General Information

- Product Names:
 - Ronilan** (BASF)
 - Curalan** (BASF)
- Chemical Class: Morpholine fungicide
- Uses: Canola and imported grapes
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Possible (1)
- Endocrine Disruption: Yes (2, 3)
- Reproductive Effects: Yes (1)
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Not documented
- Sensitizer/Irritant: Yes (1)
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Not documented

Residential Uses as Found in the ManageSafe™ Database

- [Mold](#)

Additional Information

- Regulatory Status:
 - [RED](#) signed 10/2000
- Supporting information:
 - [PAN Pesticides Database: Vinclozolin](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Effects of processing on pesticide residues in peaches intended for baby food.](#) Balinova AM, Mladenova RI, Shtereva DD. 2006. Food Addit Contam.23(9):895-901
 - [Environmental antiandrogens: low doses of the fungicide vinclozolin alter sexual differentiation of the male rat.](#) Gray LE, et al. 1999. Toxicol Ind Health;15(1-2):48-64
 - [Effects of the endocrine disruptor vinclozolin in male reproduction: a systematic review and meta-analysis.](#) Feijó, M., Martins, R.V., Socorro, S., Pereira, L. and Correia, S., 2021. Biology of Reproduction.

- [Environmentally induced epigenetic transgenerational inheritance of altered Sertoli cell transcriptome and epigenome: molecular etiology of male infertility.](#) Guerrero-Bosagna C, Savenkova M, Haque MM, et al. 2013. PLoS One. 8(3):e59922
- [Epigenetic Transgenerational Actions of Endocrine Disruptors and Male Fertility.](#) Anway, M.D. et al. 2005. Science: 308(5727) pp. 1466 - 1469
- [Exploring associations between residential exposure to pesticides and birth outcomes using the Dutch birth registry.](#) Simões, M., Vermeulen, R., Portengen, L., Janssen, N. and Huss, A., 2023. Environment International, p.108085.
- [Adverse Effects of Pesticides on the Ovary: Evidence from Epidemiological and Toxicological Studies.](#) Wang, L., Ma, X. and Liu, J. (2025) Adverse Effects of Pesticides on the Ovary: Evidence from Epidemiological and Toxicological Studies, Environment & Health. Available at: <https://pubs.acs.org/doi/full/10.1021/envhealth.4c00243>.
- [The antiandrogenic vinclozolin induces differentiation delay of germ cells and changes in energy metabolism in 3D cultures of fetal ovaries.](#) González-Sanz, S., Barreñada, O., Rial, E. et al. The antiandrogenic vinclozolin induces differentiation delay of germ cells and changes in energy metabolism in 3D cultures of fetal ovaries. Sci Rep 10, 18036 (2020). <https://doi.org/10.1038/s41598-020-75116-3>
- [Reduced birth weight in relation to pesticide mixtures detected in cord blood of full-term infants.](#) Wickerham, Erin L et al. "Reduced birth weight in relation to pesticide mixtures detected in cord blood of full-term infants." Environment international vol. 47 (2012): 80-5. doi:10.1016/j.envint.2012.06.007
- [Carcinogenicity of atrazine, alachlor, and vinclozolin.](#) Cattley, R. C., De Roos, A. J., Mandrioli, D., Pearce, N., Pronk, A., Soshilov, A., Abarikwu, S. O., Baldi, I., Barr, D. B., Freeman, L. E. B., Bortoli, S., Connolly, A., Dalvie, M. A., Ferreira, M. J., Genter, M. B., Le Hégarat, L., Lorenzetti, S., McLaughlin, J. R., Møller, P., Montagner, C. C., ... Schubauer-Berigan, M. K. (2025). Carcinogenicity of atrazine, alachlor, and vinclozolin. The Lancet. Oncology, S1470-2045(25)00702-8. Advance online publication. [https://doi.org/10.1016/S1470-2045\(25\)00702-8](https://doi.org/10.1016/S1470-2045(25)00702-8)
- [Relationship between agrochemical compounds and mammary gland development and breast cancer.](#) Kass, L., Gomez, A. L., & Altamirano, G. A. (2020). Relationship between agrochemical compounds and mammary gland development and breast cancer. Molecular and cellular endocrinology, 508, 110789. <https://doi.org/10.1016/j.mce.2020.110789>
- [Stability of epigenetic transgenerational inheritance of adult-onset disease and parturition abnormalities.](#) Korolenko, A. et al. (2026) Stability of epigenetic transgenerational inheritance of adult-onset disease and parturition abnormalities, Proceedings of the National Academy of Sciences. Available at: <https://www.pnas.org/doi/10.1073/pnas.2523071123>.

Gateway Health and Environmental Effects Citations

1. US EPA, Office of Prevention, Pesticides and Toxic Substances, Reregistration Eligibility Decisions (REDs), Interim REDs (iREDs) and RED Factsheets. <https://archive.epa.gov/pesticides/reregistration/web/html/status.html>.
2. Colborn, T., D. Dumanoski, and J.P. Myers. 1996. Our Stolen Future: Are We Threatening Our Fertility, Intelligence, and Survival? New York: Dutton. <http://ourstolenfuture.org/Basics/chemlist.htm>
3. European Commission. Endocrine Disruptors: Study on Gathering Information on 435 Substances with Insufficient Data. Final Report. EU DG Environment: B4-3040/2001/325850/MAR/C2. BKH Consulting Engineers: M0355037. November 2002. http://ec.europa.eu/environment/chemicals/endocrine/pdf/bkh_report.pdf#page=76.

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