nicotine (ISO)@ 3-[(2S)-1-methylpyrrolidin-2-yl]pyridine

IDENTIFICATION NUMBERS

- **CAS:** 54-11-5
- **EC/EINECS:** 200-193-3
- **International Chemical Safety Card (ICSC):** 0519

MORE INFORMATION

- **Molecular Formula:** C10H14N2
- **Synonyms:** 3-[(2S)-1-metilpirrolidin- 2-il]piridina

USES

insecticide, pesticide

⚠ **Black list — Substances particularly hazardous to the environment or health**

CLASSIFICATION AND LABELLING (Regulation 1272/2008)

Symbols



GHS06

Acute toxicity (oral, dermal, inhalation)



GHS09

Hazardous to the aquatic environment

Signal word: **Danger**

H Phrases

H330 : Fatal if inhaled

H310 : Fatal in contact with skin

H300 : Fatal if swallowed

H411 : Toxic to aquatic life with long lasting effects

Labelling

Concentration	Labelling
ATE= 0.19mg/L(dust/mist)	Inhalation
ATE = 70 mg/kg bw	Dermal
ATE = 5 mg/kg bw	Oral

Specific health risks

Neurotoxic substances

Substances with neurotoxic effects

NEUROTOXIC EFFECT	LEVEL
SNC	2

SOURCE

14

Ototoxic substances

Substances with ototoxic effects

NEUROTOXIC EFFECT	SOURCE
SNC	14

Occupational Exposure Limits (OEL)

Daily exposure limit values (VLA-ED) published by the Spanish National Institute of Safety and Health at Work (INSST). They represent the average concentration of a chemical agent in the worker's breathing zone, measured or calculated in a time-weighted manner for an 8-hour daily working period. (https://www.insst.es/valores-limites-de-exposicion)

OCCUPATIONAL EXPOSURE LIMITS

VLA-ED 0,5 mg/m3 Notas: s, VLI

Specific environmental risks

Atmospheric emissions

Substances subject to atmospheric emission limitations under the Industrial Emissions Directive (2010/75/EU) and its Spanish transposition. Includes pollutants regulated in industrial installation emission permits and best available technique reference documents (BAT/BREF).

Restriction/prohibition regulations

Major accident hazards (Seveso)

Hazardous substances listed in Annex I of the Seveso III Directive (Directive 2012/18/EU), transposed in Spain by Royal Decree 840/2015. Their presence in industrial establishments in quantities equal to or above established thresholds triggers obligations to implement major accident risk control measures.

Substances under PACT evaluation

Substances under active regulatory monitoring through ECHA's PACT (Public Activities Coordination Tool). Allows tracking which regulatory authorities are examining a substance and what potential regulatory actions are being considered (restriction, SVHC identification, harmonised classification, etc.).