# Propranolol

| CAS number: | 525-66-6 |
| --- | --- |
| Synonyms: | 1-(naphthalen-1-yloxy)-3-[(propan-2-yl)amino]propan-2-ol |
| Chemical formula: | C16H22ClNO2 |
| Structural formula: | — |

Workplace exposure standard (interim)

| TWA: | **—** |
| --- | --- |
| STEL: | **—** |
| Peak limitation: | **—** |
| Notations: | **—** |
| IDLH: | **—** |
| **Sampling and analysis:** NA | |

## Recommendation and basis for workplace exposure standard

Insufficient data exists to perform a risk-based assessment and therefore, it is recommended that a priority review be undertaken at the next scheduled review of the WES.

## Discussion and conclusions

## Propranolol is a non-selective beta-blocker that is widely used in pharmaceuticals for hypertension, cardiac arrhythmias, angina pectoris and hyperthyroidism.

A TWA of 0.188 ppm (2 mg/m3) and a STEL of 0.565 ppm (6 mg/m3) for propanolol was added to the Hazardous Chemical Information System (HCIS) in 1991. No further information is available to determine the source of evidence or the critical effects.

The available data is considered insufficient to support a health-based recommendation. A broader review should be prioritised at the next scheduled review.

## Recommendation for notations

The data in the primary and secondary sources is considered insufficient to support recommendation of notations.

Not classified as a carcinogen according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Not classified as a skin sensitiser or respiratory sensitiser according to the GHS.

There are insufficient data to recommend a skin notation.

# Appendix

### Primary sources with reports

| **Source Year set Standard** |
| --- |
| SWA 1991 TWA: 0.188 ppm (2 mg/m3); STEL: 0.565 ppm (6 mg/m3) | |
| Based on HSE. No further information. |
| ACGIH NA NA |
| No report. |
| DFG NA NA |
| No report. |
| SCOEL NA NA |
| No report. |
| OARS/AIHA NA NA |
| No report. |
| HCOTN NA NA |
| No report. |

### Secondary source reports relied upon

| **Source** |  | **Year** | **Additional information** |
| --- | --- | --- | --- |
| HSE |  |  | * No data is available. |

### Carcinogenicity — non-threshold based genotoxic carcinogens

| Is the chemical mutagenic? | Insufficient data |
| --- | --- |
| Is the chemical carcinogenic with a mutagenic mechanism of action? | Insufficient data |
| **Insufficient data are available to determine if the chemical is a non-threshold based genotoxic carcinogen.** | |

## Notations

| **Source** | **Notations** |
| --- | --- |
| SWA | — |
| HCIS | NA |
| NICNAS | NA |
| EU Annex | NA |
| ECHA | NA |
| ACGIH | NA |
| DFG | NA |
| SCOEL | NA |
| HCOTN | NA |
| IARC | NA |
| US NIOSH | NA |

NA = not applicable (a recommendation has not been made by this Agency); — = the Agency has assessed available data for this chemical but has not recommended any notations

### Skin notation assessment

Insufficient data to assign a skin notation.

### IDLH

| Is there a suitable IDLH value available? | No |
| --- | --- |

## Additional information

| Molecular weight: | 259.34 |
| --- | --- |
| Conversion factors at 25°C and 101.3 kPa: | 1 ppm = Number mg/m3; 1 mg/m3 = Number ppm |
| This chemical is used as a pesticide: |  |
| This chemical is a biological product: |  |
| This chemical is a by-product of a process: |  |
| A biological exposure index has been recommended by these agencies: | ACGIH  DFG  SCOEL |

## Workplace exposure standard history

| Year | Standard |
| --- | --- |
| Click here to enter year |  |

## References

NIL.