

Phenethyl benzoate

EC number: 202-336-5 | CAS number: 94-47-3



Toxicological information

Toxicological Summary

Administrative data

Workers - Hazard via inhalation route

Systemic effects

Long term exposure

Hazard assessment conclusion:	DNEL (Derived No Effect Level)
Value:	49.3 mg/m ³
Most sensitive endpoint:	repeated dose toxicity
Route of original study:	Oral
DNEL related information	
DNEL derivation method:	other:
Overall assessment factor (AF):	25
Dose descriptor starting point:	NOAEL
DNEL value:	1 000 mg/kg bw/day
Modified dose descriptor starting point:	NOAEC
DNEL value:	1 230 mg/m ³
Explanation for the modification of the dose descriptor starting point:	Highest NOAEL
AF for dose response relationship:	1
Justification:	Default (DNEL calculator)
AF for differences in duration of exposure:	2
Justification:	Default (DNEL calculator)
AF for interspecies differences (allometric scaling):	1
Justification:	Default (DNEL calculator)
AF for other interspecies differences:	2.5
Justification:	Default (DNEL calculator)
AF for intraspecies differences:	5
Justification:	Default (DNEL calculator)

AF for the quality of the whole database:	1
Justification:	Default (DNEL calculator)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

DNEL related information

Local effects

Long term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

DNEL related information

Workers - Hazard via dermal route

Systemic effects

Long term exposure

Hazard assessment conclusion: DNEL (Derived No Effect Level)

Value: 14 mg/kg bw/day

Most sensitive endpoint: repeated dose toxicity

Route of original study: Oral

DNEL related information

DNEL derivation method: other:

Overall assessment factor (AF): 100

Dose descriptor starting point: NOAEL

DNEL value: 1 000 mg/kg bw/day

Modified dose descriptor starting point: NOAEL

DNEL value: 1 400 mg/kg bw/day

Explanation for the modification of the dose descriptor starting point: Highest NOAEL

AF for dose response relationship: 1

Justification: Default (DNEL calculator)

AF for differences in duration of exposure: 2

Justification: Default (DNEL calculator)

AF for interspecies differences (allometric scaling): 4

Justification: Default (DNEL calculator)

AF for other interspecies differences: 2.5

Justification: Default (DNEL calculator)

AF for intraspecies differences: 5

Justification: Default (DNEL calculator)

AF for the quality of the whole database: 1

Justification: Default (DNEL calculator)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

DNEL related information

Local effects

Long term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

Workers - Hazard for the eyes

Local effects

Hazard assessment conclusion: low hazard (no threshold derived)

Additional information - workers

General Population - Hazard via inhalation route

Systemic effects

Long term exposure

Hazard assessment conclusion: DNEL (Derived No Effect Level)

Value: 8.7 mg/m³

Most sensitive endpoint: repeated dose toxicity

Route of original study: Oral

DNEL related information

DNEL derivation method: other:

Overall assessment factor (AF): 50

Dose descriptor starting point: NOAEL

DNEL value: 1 000 mg/kg bw/day

Modified dose descriptor starting point: NOAEC

DNEL value: 435 mg/m³

Explanation for the modification of the dose descriptor starting point: Highest NOAEL

AF for dose response relationship: 1

Justification: Default (DNEL calculator)

AF for differences in duration of exposure:	2
Justification:	Default (DNEL calculator)
AF for interspecies differences (allometric scaling):	1
Justification:	Default (DNEL calculator)
AF for other interspecies differences:	2.5
Justification:	Default (DNEL calculator)
AF for intraspecies differences:	10
Justification:	Default (DNEL calculator)
AF for the quality of the whole database:	1
Justification:	Default (DNEL calculator)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

DNEL related information

Local effects

Long term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

DNEL related information

General Population - Hazard via dermal route

Systemic effects

Long term exposure

Hazard assessment conclusion:	DNEL (Derived No Effect Level)
Value:	5 mg/kg bw/day
Most sensitive endpoint:	repeated dose toxicity
Route of original study:	Oral
DNEL related information	
DNEL derivation method:	other:
Overall assessment factor (AF):	200
Dose descriptor starting point:	NOAEL
DNEL value:	1 000 mg/kg bw/day
Modified dose descriptor starting point:	NOAEL
DNEL value:	1 000 mg/kg bw/day
Explanation for the modification of the dose descriptor starting point:	Highest NOAEL
AF for dose response relationship:	1

Justification:	Default (DNEL calculator)
AF for differences in duration of exposure:	2
Justification:	Default (DNEL calculator)
AF for interspecies differences (allometric scaling):	4
Justification:	Default (DNEL calculator)
AF for other interspecies differences:	2.5
Justification:	Default (DNEL calculator)
AF for intraspecies differences:	10
Justification:	Default (DNEL calculator)
AF for the quality of the whole database:	1
Justification:	Default (DNEL calculator)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

DNEL related information

Local effects

Long term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

General Population - Hazard via oral route

Systemic effects

Long term exposure

Hazard assessment conclusion:	DNEL (Derived No Effect Level)
Value:	5 mg/kg bw/day
Most sensitive endpoint:	repeated dose toxicity
Route of original study:	Oral
DNEL related information	
DNEL derivation method:	other:
Overall assessment factor (AF):	200
Dose descriptor starting point:	NOAEL
DNEL value:	1 000 mg/kg bw/day
Modified dose descriptor starting point:	NOAEL
DNEL value:	1 000 mg/kg bw/day
Explanation for the modification of the dose descriptor starting point:	Highest NOAEL

AF for dose response relationship:	1
Justification:	Default (DNEL calculator)
AF for differences in duration of exposure:	2
Justification:	Default (DNEL calculator)
AF for interspecies differences (allometric scaling):	4
Justification:	Default (DNEL calculator)
AF for other interspecies differences:	2.5
Justification:	Default (DNEL calculator)
AF for intraspecies differences:	10
Justification:	Default (DNEL calculator)
AF for the quality of the whole database:	1
Justification:	Default (DNEL calculator)

Acute/short term exposure

Hazard assessment conclusion: low hazard (no threshold derived)

DNEL related information

General Population - Hazard for the eyes

Local effects

Hazard assessment conclusion: low hazard (no threshold derived)

Additional information - General Population

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