



## TRIPHENYL AMINE

**CAS number:** 603-34-9

**Synonyms:** Benzenamine, N,N-diphenyl-, *N,N*-diphenylaniline

**Chemical formula:** C<sub>18</sub>H<sub>15</sub>N

**Structural formula:** —

### Workplace exposure standard (interim)

**TWA:** 5 mg/m<sup>3</sup>

**STEL:** —

**Peak limitation:** —

**Notations:** —

**IDLH:** —

**Sampling and analysis:** The recommended value is quantifiable through available sampling and analysis techniques.

### Recommendation and basis for workplace exposure standard

A TWA of 5 mg/m<sup>3</sup> is recommended to be retained in the interim to protect for irritation of eyes and skin in exposed workers.

A review of the available information is recommended at the next scheduled review.

### Discussion and conclusions

Triphenyl amine is used as a photoconductor and in film manufacturing.

Critical effects of exposure include skin and eye irritation (ECHA, 2020).

No reports or data are available in sources. Insufficient data is available to perform a full assessment.

A review of the additional sources is recommended at the next scheduled review.

### Recommendation for 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
<b>SWA</b>	<b>1991</b>	<b>TWA: 5 mg/m<sup>3</sup></b>
Based on recommendation from ACGIH 1991.		
<b>ACGIH</b>	<b>NA</b>	<b>NA</b>
No report. Documentation and adopted TLV-TWA of 5 mg/m <sup>3</sup> withdrawn due to insufficient data in 2008.		
<b>DFG</b>	<b>NA</b>	<b>NA</b>
No report.		
<b>SCOEL</b>	<b>NA</b>	<b>NA</b>
No report.		
<b>OARS/AIHA</b>	<b>NA</b>	<b>NA</b>
No report.		
<b>HCOTN</b>	<b>NA</b>	<b>NA</b>
No report.		

### Secondary source reports relied upon

NIL.

### 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	NA
HCIS	NA
NICNAS	NA
EU Annex	NA
ECHA	—
ACGIH	NA
DFG	NA



Source	Notations
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 evidence to recommend a skin notation.

### IDLH

Is there a suitable IDLH value available? No

### Additional information

Molecular weight:	245.3
Conversion factors at 25°C and 101.3 kPa:	1 ppm = 10.03 mg/m <sup>3</sup> ; 1 mg/m <sup>3</sup> = 0.1 ppm
This chemical is used as a pesticide:	<input type="checkbox"/>
This chemical is a biological product:	<input type="checkbox"/>
This chemical is a by-product of a process:	<input type="checkbox"/>
A biological exposure index has been recommended by these agencies:	<input type="checkbox"/> ACGIH <input type="checkbox"/> DFG <input type="checkbox"/> SCOEL

### Workplace exposure standard history

Year	Standard
<a href="#">Click here to enter year</a>	

### References

European Chemicals Agency (ECHA) (2020) Triphenyl amine – REACH assessment.