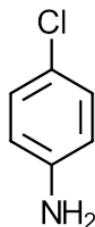


CAS 106-47-8

# Para-Chloroaniline

C<sub>6</sub>H<sub>6</sub>ClN



## Summary of Health Effects

Para-chloroaniline can cause spleen and liver cancers in animals and may cause cancer in humans. It may also lower the ability of a blood protein to deliver oxygen inside the bodies of humans and animals.

## How is para-chloroaniline used?

Para-chloroaniline is used to manufacture dyes and pigments and other chemicals.<sup>1,2</sup>

## Toxicity: What are its health effects?

Para-chloroaniline is classified as possibly carcinogenic to humans by the International Agency for Research on Cancer.<sup>1</sup> It is included on California's Proposition 65 list as a carcinogen.<sup>2</sup>

Evidence for its carcinogenic activity is based on animal studies, which documented tumors of

the spleen and liver after exposure to para-chloroaniline.<sup>1</sup> Methemoglobinemia (excess methemoglobin in the blood) is associated with exposure to para-chloroaniline and its breakdown products.<sup>1</sup>

Para-chloroaniline is metabolized similarly in humans and animals.<sup>1</sup>

## Exposure: How can a person come in contact with it?

A person can come in contact with para-chloroaniline by breathing in contaminated air, eating and drinking contaminated food and water, or from skin contact.<sup>3</sup>

The 2014 National Health and Nutrition Examination Survey (NHANES) report did not include data for para-chloroaniline.

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## References

1. World Health Organization, International Agency for Research on Cancer (1993). *IARC Monograph on the evaluation of carcinogenic risks to humans, volume 57: Occupational exposures of hairdressers and barbers and personal use of hair colourants, some hair dyes, cosmetic colourants, industrial dyestuffs and aromatic amines*. Retrieved from [monographs.iarc.fr/ENG/Monographs/vol57/mono57-21.pdf](http://monographs.iarc.fr/ENG/Monographs/vol57/mono57-21.pdf)
2. California Environmental Protection Agency, Office of Environmental Health Hazard Assessment. *List of chemicals known to the state to cause cancer or reproductive toxicity*. Retrieved May 25, 2018, from [oehha.ca.gov/proposition-65/proposition-65-list](http://oehha.ca.gov/proposition-65/proposition-65-list)
3. U.S. Department of Health and Human Services (1986). *Hazardous Substances Data Bank (HSDB) for 4-chloroaniline (CASRN: 106-47-8)*. Retrieved from [toxnet.nlm.nih.gov/newtoxnet/hsdb.htm](http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm)