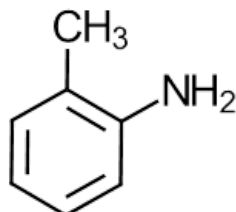


CAS 95-53-4

2-Aminotoluene (*orthotoluene*)

C₇H₉N



Summary of Health Effects

2-aminotoluene, or *orthotoluene*, can cause cancer in animals and may cause cancer in humans, especially bladder cancer.

How is 2-aminotoluene used?

2-aminotoluene is primarily used to make dyes and pigments, synthetic rubber and rubber vulcanizing chemicals, pharmaceuticals and pesticides.^{1,2}

Toxicity: What are its health effects?

The National Toxicology Program identified 2-aminotoluene as a known human carcinogen.³ The International Agency for Research on Cancer determined that there is sufficient evidence in experimental animals to support the carcinogenicity of 2-aminotoluene, and limited evidence for carcinogenicity in humans.¹

Bladder cancer was reported in humans who were occupationally exposed to 2-aminotoluene. However, these occupational study conclusions have limited applicability because people may have been exposed to other substances that may have contributed to their negative health effects.^{2,3}

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

A person can come in contact with 2-aminotoluene by breathing it in or from skin contact. Contact sources include dye and textile residues on consumer products and tobacco smoke.³

The 2014 National Health and Nutrition Examination Survey (NHANES) report did not include data for 2-aminotoluene.

References

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2. U.S. National Library of Medicine (2011). *Hazardous Substance Data Bank (HSDB) for 2-aminotoluene (CASRN: 95-53-4)*. Retrieved from toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
3. U.S. Department of Health and Human Services, National Toxicology Program (2014). *Report on carcinogens, thirteenth edition*. Retrieved from ntp.niehs.nih.gov/ntp/roc/content/profiles/toluidine.pdf