

TEDX List of Potential Endocrine Disruptors

dibutyl phthalate

CAS # 84-74-2

Alternative Names

DBP
di-n-butyl phthalate

Categories*

Household product ingredient
Industrial additive
Personal care product/Cosmetic ingredient
Plastic/Rubber
Solvent
Unconventional Oil and Gas

Evidence Supporting This Chemical as an Endocrine Disruptor

Davis WP. 1988. Reproductive and developmental responses in the self-fertilizing fish, *Rivulus marmoratus*, induced by the plasticizer, di-n-butylphthalate. *Environmental Biology of Fishes* 21(2):81-90.
Fan WQ, Yanase T, Morinaga H, Gondo S, Okabe T, Nomura M, Komatsu T, Morohashi K-I, Hayes TB, Takayanagi R, Nawata H. 2007. Atrazine-induced aromatase expression is SF-1 dependent: implications for endocrine disruption in wildlife and reproductive cancers in humans. *Environ Health Perspect* 115(5):720-727.
Kanayama T, Kobayashi N, Mamiya S, Nakanishi T, Nishikawa J. 2005. Organotin compounds promote adipocyte differentiation as agonists of the peroxisome proliferator-activated receptor [gamma]/retinoid X receptor pathway. *Mol Pharmacol* 67(3):766-774.
Lu KY, Tseng FW, Wu CJ, Liu PS. 2004. Suppression by phthalates of the calcium signaling of human nicotinic acetylcholine receptors in human neuroblastoma SH-SY5Y cells. *Toxicology* 200(2-3):113-121.
Ryu JY, Lee BM, Kacew S, Kim HS. 2007. Identification of differentially expressed genes in the testis of Sprague-Dawley rats treated with di(n-butyl) phthalate. *Toxicology* 234(1-2):103-112.

*Category References

Orem WH, Tatu CA, Lerch HE, Rice CA, Bartos TT, Bates AL, Tewalt S, Corum MD. 2007. Organic compounds in produced waters from coalbed natural gas wells in the Powder River Basin, Wyoming, USA. *Appl Geochem* 22(10):2240-2256.
US Dept of Health & Human Services. Household Products Database.
US National Library of Medicine. Haz-Map.

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