United States
Environmental Protection Agency

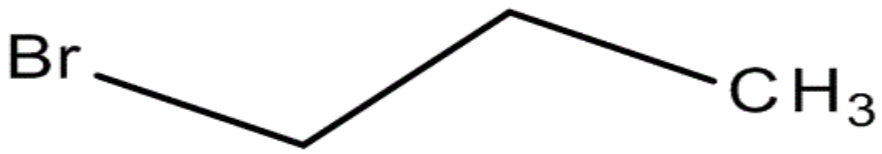
Office of Chemical Safety and
Pollution Prevention

Draft Risk Evaluation for 1-Bromopropane (1-BP)

1-BP Systematic Review Supplemental File:

Data Extraction for Consumer Exposure

CASRN: 106-94-5



August 2019

Biomonitoring Data for 1-BP using the one article in Systematic Review

Systematic review identified biomonitoring measurements from only one source, the National Health and Nutrition Examination Survey (NHANES), conducted by CDC's National Center for Health Statistics (NCHS). The survey is "a complex, stratified, multistage, probability-cluster design survey" designed to collect data on the health and nutrition of a representative sample of the US population. NHANES measured the metabolite Acetyl-S-(n-propyl)-L-cysteine (BPMA) in urine spot samples. Jain et. al. (2015) investigated the variability of BPMA levels in children aged 6–11 years for the 2011-2012 NHANES survey cycle. The geometric mean concentration (with 95% confidence intervals) in urine was 2.6 (2-3.3) µg/L for males (n=203) and 3.3 (2.5-4.3) µg/L for females (n=214).

CDC published in Jan 2019 their 4th report with data through the 2016 cycle, which incorporates data from 2011-2012. So alternatively, can use this paragraph.

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Reference for Updated Tables, 2019

Centers for Disease Control and Prevention. Fourth Report on Human Exposure to Environmental Chemicals, Updated Tables, (January 2019). Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. https://www.cdc.gov/exposurereport/