

# ARCHIVED

## What's New and Different?

The *Updated Tables, March 2018*, include chemicals that have results available from the NHANES survey periods 1999-2000 through 2015-2016. New chemicals measured for the first time include serum hydroxycotinine, urinary bisphenol F (BPF), bisphenol S (BPS), nine urinary flame retardant metabolites, blood cobalt and chromium, and two phthalate urinary metabolites (mono-3-hydroxybutyl phthalate and mono-2-methyl-2-hydroxypropyl phthalate). Serum per- and polyfluoroalkyl substances (PFAS) were measured in a special sample of children ages 3 to 11 years in NHANES 2013-2014 to provide data for younger children who are not included in the regular NHANES sample for the PFAS chemicals. Ten blood VOCs were measured for the first time in NHANES 2013-2014: chloroethane; cyclohexane; diethylether; ethyl acetate; heptane; methylcyclopentane; octane; tetrahydrofuran;  $\alpha\alpha\alpha$ -trifluorotoluene; and vinyl bromide. Also in NHANES 2013-2014, 10 urinary heterocyclic aromatic amines were measured in the U.S. general population and in the special sample of adult cigarette smokers and nonsmokers.

Chemicals with updated data in this release are

- serum cotinine;
- blood cadmium, lead, manganese, total mercury, and selenium;
- urinary DEET metabolites;
- urinary phthalate metabolites;
- urinary polycyclic aromatic hydrocarbon (PAH) metabolites;
- blood VOCs, including disinfection by-products;
- urinary VOC metabolites;
- serum PBDEs and PBB 153 (pooled);
- serum organochlorine pesticides and metabolites (pooled);
- serum PCBs and mono-ortho-substituted PCBs (pooled);
- serum polychlorinated dibenzo-p-dioxins (pooled);
- serum polychlorinated dibenzofurans (pooled);
- serum dioxin-like polychlorinated biphenyls: coplanar PCBs (pooled).

### ***Updated Tables in Two Volumes***

Continuing with this release, we have expanded the *Updated Tables* to two volumes, each as a separate PDF. This change was made because the file size of the single PDF had become so large that it could not easily be shared or sent as an attachment. Volume One contains data tables for most of the chemicals measured in the U.S. general population. Volume Two contains data tables for the persistent organic pollutants and pesticides previously measured in individual samples and are currently measured in pooled samples. Volume Two also contains data tables for the special sample of adult cigarette smokers and nonsmokers, including recently released data from NHANES 2013-2014. We anticipate that future *Updated Tables* will continue to be presented in two volumes.

## **PFOS and PFOA Results for NHANES 2013-2014**

Starting in 2013, we began measuring linear and branched isomers of both PFOS and PFOA and no longer measuring total PFOS or PFOA. The isomers of each chemical represent more than 95% of what was previously reported as PFOS and PFOA. PFOS and PFOA were calculated by summing the linear and branched isomers for each participant before applying the appropriate sample weight. Because the 2013-2014 values are a calculated sum, there is no limit of detection (LOD) for PFOS and PFOA. Data tables for each of the four isomers also are presented. See [Calculation of PFOS and PFOA as the Sum of the Isomers](#) for more details. The calculated PFOS and PFOA results can be used to compare with previous measurements and to examine trends in the general U.S. population.

The “What’s New and Different” sections in previous releases of *Updated Tables* is available in the Archives from *Updated Tables* at: <https://www.cdc.gov/exposurereport/>.