

**Note to readers with disabilities:** *EHP* strives to ensure that all journal content is accessible to all readers. However, some figures and Supplemental Material published in *EHP* articles may not conform to [508 standards](#) due to the complexity of the information being presented. If you need assistance accessing journal content, please contact [ehp508@niehs.nih.gov](mailto:ehp508@niehs.nih.gov). Our staff will work with you to assess and meet your accessibility needs within 3 working days.

### **Supplemental Material**

#### **Expanded Systematic Evidence Map for Hundreds of Per- and Polyfluoroalkyl Substances (PFAS) and Comprehensive PFAS Human Health Dashboard**

Avanti V. Shirke, Elizabeth G. Radke, Cynthia Lin, Robyn Blain, Nicole Vetter, Courtney Lemeris, Pamela Hartman, Heidi Hubbard, Michelle Angrish, Xabier Arzuaga, Johanna Congleton, Allen Davis, Laura V. Dishaw, Ryan Jones, Richard Judson, J. Phillip Kaiser, Andrew Kraft, Lucina Lizarraga, Pamela D. Noyes, Grace Patlewicz, Michele Taylor, Antony J. Williams, Kristina A. Thayer, and Laura M. Carlson

#### **Table of Contents**

##### **DeDuper**

##### **Distiller Literature Inventory SOP for Expanded PFAS Evidence Map (abbreviated)**

**Table S1.** PFAS under assessment by U.S. EPA that are not included in this systematic evidence map.

**Table S2.** Categorization for grouping endpoints under health outcomes.

**Table S3.** Types of study designs (human).

**Table S4.** HAWC Visual Inventory Table by Chemical.

##### **References**

**Additional File-** Excel Document

## **DeDuper**

DeDuper is a tool developed by ICF, freely available to clients by request, that incorporates machine learning to identify and reconcile duplicate references in multiple database search results. The DeDuper tool uses a two-phase approach to identify duplicates: 1) locates duplicates using automated logic, and 2) employs machine learning to predict likely duplicates which are then verified manually.

ICF automated the deduplication process by applying a novel pipeline of deduplication algorithms. Deduplication is performed in two phases and can be evaluated for precision (proportion of true positives within all records predicted to be duplicates) and recall (i.e., sensitivity, the proportion of true positives within all records that were actual duplicates). Phase 1 prioritizes precision, by defining a set of exact match rules that operate on a limited set of fields in standard bibliographic citation files (lower-case title, publication year, first author, and starting page). The second phase of the pipeline uses machine learning to flag predicted matches as duplicates for removal and entity resolution on Research Information Systems (RIS) files; this phase is designed to maximize recall by applying algorithms to more comprehensively detect the remaining duplicates. The algorithms (i) intelligently limit the number of record comparisons to ensure speedy performances, and (ii) apply machine learning and fuzzy comparisons to learn and apply user tolerance for differences in select fields that are not exact matches (e.g., title, author names, and publication year).

This tool utilizes the Python Dedupe package to compare references field by field to identify pairs that have the highest likelihood of being a duplicate record. During training, the program:

- Groups records based on editing distance across specific fields (i.e., affine gap distance).
- Proposes grouped records as duplicates to the user for verification and changes the relative weights of various features of each entry based on the user's response.
- Identifies the probability of duplication based on the distance between each record cluster after sufficient testing and allows for a more conservative or a more aggressive deduplication process based on threshold probabilities.

For rapid processing, ICF created a large training dataset from deduplication efforts on previous projects that save the user the need for training the model for each new run.

The algorithms underlying DeDuper - and its application in a case study involving a literature search related to diisononyl phthalate (DINP) - were presented at the 2019 Society of Toxicology (SOT) meeting.<sup>1</sup> In this case study, ICF applied DeDuper to a set of 30,000 references in which duplicates had been previously identified manually. Phase 1 achieved a precision of 100%, although recall was limited at 76%. Phase 2 achieved a recall of 99% with a 48% precision. After accounting for manual review to remove false positives from the machine-identified duplicates pile, the combined pipeline realized an 82% efficiency gain. ICF normalized these results based on maximum possible efficiency gains (which depends on the proportion of duplicate groups in the original dataset) to estimate a specificity of 85%.

## **Distiller Literature Inventory SOP for Expanded PFAS Evidence Map (abbreviated)**

### **Part 1: Data Extraction**

**Step 1: View list of studies.** To view the list of studies, go to Review -> Level 3 -> Health Literature Inventory Extraction form. Alternatively, you can access the list from the assessment home page. Under Level 3, click on "Unreviewed" to access the list of studies that have not been extracted yet.

## Literature Inventory - Health Literature Inventory Ex...

 127 Unreviewed

 0 Reviewed by you

 0 My Conflicts

**Step 2: Select a study for extraction.** Select a study by clicking on it, and a new tab will open.

Unreviewed Reference(s)

127 total

RefID: 1277446, Subacute exposure to N-ethyl perfluorooctanesulfonamidoethanol results in the formation of perfluorooctanesulfonate and alters superoxide dismutase activity in female rats  
W. Xie, Q. Wu, I. Kania-Korwel, J. C. Tharappel, S. Telu, M. C. Coleman, H. P. Glauert, K. Kannan, S. V. Mariappan, D. R. Spitz, J. Weydert, H. J. Lehmler  
Level: 3, State: Included  
Perfluorooctanesulfonamides, such as N-ethyl perfluorooctanesulfonamidoethanol (N-EtFOSE), are large scale industrial chemicals but their disposition and...

RefID: 1303734, Induction of triglyceride accumulation in the liver of rats by perfluorinated fatty acids with different carbon chain lengths: Comparison with induction of peroxisomal beta-oxidation  
N. Kudo, Y. Kawashima  
Level: 3, State: Included  
The potency to accumulate triglyceride (TG) was compared between perfluorinated fatty acids (PFCAs) with different carbon chain lengths in the liver of male...

RefID: 1332452, Effects of perfluoro fatty acids on peroxisome proliferation and mitochondrial size in mouse liver: dose and time factors and effect of chain length  
H. Permadi, B. Lundgren, K. Andersson, C. Sundberg, J. W. Depierre  
Level: 3, State: Included  
1. Male mice were fed a diet containing perfluoro fatty acids of varying chain length (i.e. perfluoropentanoic, -hexanoic, -octanoic and -decanoic acids) at

Once the new tab opens, search the RefID

at <https://heronet.epa.gov/heronet/index.cfm/search> and download the PDF.

**Step 3: Data extraction – Part 1**

**Step 3a: Enter Author information.** Use the format specified in the Distiller form.

Reference (short format), e.g., Smith, 1978, Smith and Jones, 1978 or Smith et al., 1978 (for more than 3 authors).

Park et al., 2018

**Step 3b: Select all supplemental tags that apply**

**Step 3c: Select other PFAS chemicals that were evaluated but not included in our screening**

**Step 3d: Select “No” for the QC question if you are doing the primary extraction**

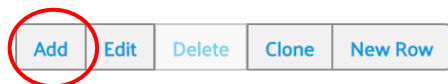
Select “No” to indicate that you are doing the initial data extraction. *If you find during your review that the study does not meet PECO criteria, it should not be extracted. Select “study is not PECO-relevant: update full-text screening tags” to indicate that the study needs to be retagged at the full text review level.*

**Step 4: Data extraction – Part 2**

**Step 4a: Add a subform**

To begin extracting data, click on ‘Add’ and a subform will appear. You are now ready to enter information into the form.

2. Subforms



**Step 4b: Enter evidence type.** This is a dropdown menu – human, animal, or PBPK

Evidence Type

\*human for epidemiological data; animal for studies conducted in animals

Select an Answer

Note: For this project, select “human (abbreviated extraction)” for human.

**Step 4c: Select chemical form.** This is a dropdown menu of the preferred names of each chemical.

Refer to the [Master List](#) in Teams for their synonyms.

[Chemical form](#)

Select the preferred name of the chemical. Please refer to the [chemical list](#) in Teams for the list of synonyms.

[Permanently add an answer to this question](#)

**The next questions about study design will differ depending on whether the study is in humans or animals.**

**Human studies (abbreviated form):**

**Step 4d (Human): Enter sex, population, and study design.** Select sex, population, and study design from dropdown menus. **Please refer to Table S3 for guidance in selecting the study design.**

**Sex**

In most case studies that include males and females can be marked as "both" and sex-specific differences in response described in the "Doses or exposure levels associated with findings" question below.

Select an Answer ▼

**Population**

Select an Answer ▼

**Study design (human)**

Select an Answer ▼

**Step 4e (Human): Exposure measurement.** Enter information on the exposure measurement as prompted in the Distiller form.

**Exposure measurement**

- biomonitoring
- air
- food
- drinking water
- occupational (use in cases where exposure is based on factors such as job function, place in building where people worked)
- direct administration - oral

**Step 4f (Human): Select health outcome.** See **Table S2** for what kind of endpoints are grouped under which health outcomes. Please create a separate form for each outcome. See Step 6 on how to clone a form.

**Health outcomes (Abbreviated Human Health Extraction - no endpoints)**

Form should be completed for one health outcome; form can be cloned for studies that assess more than one health outcome.

Select an Answer ▼

### **Animal studies (abbreviated):**

**Step 4d (Animal): Enter study design.** This is a drop-down menu.

Note: If a study presents multiple experiments with different exposure durations, e.g. subchronic and chronic, these experiments need to be entered in separate forms. Please indicate which experiment you are referring to in the comment box. Also, see instructions below to clone the form.

#### Study design (animal)

Form should be completed for each study design presented in a study; form can be cloned for studies that assess more than one study design

“Developmental” includes F0 and F1 data from one generation repro/developmental study designs.

“Multigenerational” includes repro/developmental studies that span two generations and beyond.

Both developmental and multigenerational study designs will have a free text box where you will indicate the generation (F0, F1, etc).

### **Step 4e: Enter the route, species, sex, and health outcomes**

#### Route

#### Species

#### Sex

In most case studies that include males and females can be marked as “both” and sex-specific differences in response described in the “Doses or exposure levels associated with findings” question below.

#### Health outcomes (Abbreviated Animal Extraction - no endpoints)

Form should be completed for one health outcome; form can be cloned for studies that assess more than one health outcome.

#### Comments

For most studies this field will be blank. However, if there are multiple experiments, please indicate which one you are referring to in this form.

Note: See **Table S2** for what kind of endpoints are grouped under which health outcomes.

**Step 5: Click ‘Submit’** when you have completed the form. This will save the subform. Note: If you are done with all your subforms, you must also click ‘Submit’ at the top of the page (see Step 8).

**Step 6: Cloning the form.** If you have more than one study design or health outcome, you can ‘clone’ the form to avoid having to reenter the study design information (although all outcome information will need to be deleted and reentered in the cloned form). To do this, select the form you

want to clone and click “Clone” near the top of the page. Alternatively, you can start a new blank form by clicking “Add”.

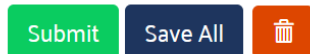
2. Subforms



**Step 7: Editing the form:** If you need to change information or edit a form you have completed, you can click on the arrow within a form to edit.



**Step 8: At the top of the page, click ‘Submit’.** Note: If you don’t do this, the study will remain as ‘reviewed, but unsubmitted’, which means it is still incomplete.



**Table S1. PFAS under assessment by U.S. EPA that are not included in this systematic evidence map.**

PFAS	CAS RN	DTSXID	U.S. EPA Assessment activity
Perfluorobutanoic acid (PFBA)	375-22-4	DTXSID4059916	IRIS Assessment <sup>a</sup> U.S. EPA (2022) <sup>2</sup>
Ammonium perfluorobutanoate	10495-86-0	DTXSID10893420	
Perfluorohexanoic acid (PFHxA)	307-24-4	DTXSID3031862	IRIS Assessment <sup>a</sup> U.S. EPA (2022) <sup>3</sup>
Ammonium perfluorohexanoate	21615-47-4	DTXSID90880232	
Sodium perfluorohexanoate	2923-26-4	DTXSID3052856	
Perfluorooctanoic acid (PFOA)	335-67-1	DTXSID8031865	Development of SDWA National Primary Drinking Water Regulation U.S. EPA (2023) <sup>4</sup>
Ammonium perfluorooctanoate	3825-26-1	DTXSID8037708	
Perfluorononanoic acid (PFNA)	375-95-1	DTXSID8031863	IRIS Assessment <sup>a</sup> U.S. EPA (2021) <sup>5</sup>
Ammonium perfluorononanoate	4149-60-4	DTXSID20880205	
Sodium heptadecafluorononanoate	21049-39-8	DTXSID50896632	
Perfluorodecanoic acid (PFDA)	335-76-2	DTXSID3031860	IRIS Assessment <sup>a</sup> U.S. EPA (2023) <sup>6</sup>
Ammonium perfluorodecanoate	3108-42-7	DTXSID60880027	
Sodium perfluorodecanoate	3830-45-3	DTXSID20880028	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	DTXSID5030030	ORD Assessment U.S. EPA (2021) <sup>7</sup>
Perfluorobutanesulfonate	45187-15-3	DTXSID60873015	
Ammonium perfluorobutanesulfonate	68259-10-9	DTXSID3071355	
Potassium perfluorobutanesulfonate	29420-49-3	DTXSID3037707	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	DTXSID7040150	IRIS Assessment <sup>a</sup> U.S. EPA (2023) <sup>8</sup>
Potassium perfluorohexanesulfonate	3871-99-6	DTXSID3037709	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	DTXSID3031864	Development of SDWA National Primary Drinking Water Regulation U.S. EPA (2023) <sup>9</sup>
Perfluorooctanesulfonate	45298-90-6	DTXSID80108992	
Ammonium perfluorooctanesulfonate	29081-56-9	DTXSID9067435	



Lithium perfluorooctanesulfonate	29457-72-5	DTXSID2032421	
Potassium perfluorooctanesulfonate	2795-39-3	DTXSID8037706	
Sodium perfluorooctanesulfonate	4021-47-0	DTXSID50635462	
Perfluoro-2-methyl-3-oxahexanoic acid (“GenX Chemicals”)	13252-13-6	DTXSID70880215	OW Assessment U.S. EPA (2021) <sup>10</sup>
Ammonium perfluoro-2-methyl-3-oxahexanoate	62037-80-3	DTXSID40108559	
Lithium bis [(trifluoromethyl)sulfonyl] azanide (HQ-115)	90076-65-6	DTXSID8044468	ORD Assessment U.S. EPA (2023) <sup>11</sup>
1,1,1-Trifluoro-N-[(trifluoromethyl)sulfonyl]methanesulfonamide (TFSI)	82113-65-3	DTXSID2045026	

Note: These PFAS were deprioritized from the evidence map due to scoping considerations as described in the Methods section. These PFAS chemicals are undergoing more in-depth analyses as part of specific U.S.EPA chemical assessments. Interested readers can access assessments or draft materials at the identified citations. <sup>a</sup>The URLs provided in the citation records provide links to the chemical assessment page for PFAS under assessment by the U.S. EPA Office of Research and Development’s (ORD) Integrated Risk Information System (IRIS) Program. Information on timelines for development of the assessments can be found in the IRIS Program Outlook,<sup>12</sup> which is updated 3 times a year.

**Table S2: Categorization for grouping endpoints under health outcomes**

Health Effect Category	Examples of Relevant Endpoints	Notes
<b>Systemic Effects</b>	<ul style="list-style-type: none"> <li>body weight (not reproductive/developmental)</li> <li>mortality, survival, or LD50s</li> <li>growth curve</li> <li>clinical observations (e.g., lethargy; oral discharge)</li> </ul>	<ul style="list-style-type: none"> <li>clinical chemistry endpoints are under Hepatic or Hematologic</li> <li>maternal body weights are under Reproductive</li> <li>pup body weight endpoints are under Developmental</li> <li>pathology (including gross lesions) is organ-specific</li> </ul>
<b>Carcinogenicity</b>	<ul style="list-style-type: none"> <li>tumors</li> <li>precancerous lesions (e.g., dysplasia)</li> </ul>	
<b>Cardiovascular Effects</b>	<ul style="list-style-type: none"> <li>heart weight</li> <li>heart, artery, and vein histopathology</li> <li>blood pressure</li> <li>serum cholesterols and lipids</li> </ul>	<ul style="list-style-type: none"> <li>other blood measures are under Hepatic, Immune, or Hematologic</li> </ul>
<b>Dermal Effects</b>	<ul style="list-style-type: none"> <li>skin sensitivity</li> <li>skin histopathology</li> </ul>	-

Health Effect Category	Examples of Relevant Endpoints	Notes
<b>Developmental Effects</b>	<ul style="list-style-type: none"> <li>• pup viability/survival, or other birth parameters</li> <li>• pup weight or growth (into adulthood if developmental exposure)</li> <li>• developmental landmarks (e.g., eye opening) not including markers for other organ/system-specific toxicities</li> <li>• skeletal, visceral, or gross abnormalities in fetuses/pups</li> </ul>	<ul style="list-style-type: none"> <li>• histopathology and markers of development specific to other systems are organ/system-specific (e.g., vaginal opening is under Female Reproductive; tests of sensory maturation are under Nervous System)</li> </ul>
<b>Endocrine Effects</b>	<ul style="list-style-type: none"> <li>• thyroid/adrenal weight</li> <li>• thyroid/adrenal histopathology</li> <li>• hormonal measures in any tissue or blood (non-reproductive)</li> <li>• stress-related factors in blood (e.g., glucocorticoids or other adrenal markers)</li> </ul>	<ul style="list-style-type: none"> <li>• reproductive hormones are under Reproductive</li> </ul>
<b>Gastrointestinal Effects</b>	<ul style="list-style-type: none"> <li>• stomach and intestine weight</li> <li>• stomach and intestine histopathology</li> </ul>	-
<b>Hematologic Effects</b>	<ul style="list-style-type: none"> <li>• corpuscular volume</li> <li>• red blood cells</li> <li>• serum hematocrit or hemoglobin</li> <li>• serum platelets or reticulocytes</li> <li>• serum biochemical measures (sodium, calcium, phosphorus)</li> <li>• blood coagulation markers</li> </ul>	<ul style="list-style-type: none"> <li>• white blood cell counts and globulin are under Immune</li> <li>• serum lipids are under Cardiovascular</li> <li>• serum liver markers are under Hepatic</li> </ul>
<b>Hepatic Effects</b>	<ul style="list-style-type: none"> <li>• liver weight</li> <li>• liver histopathology</li> <li>• liver tissue enzyme activity (e.g., catalase) or protein/DNA content</li> <li>• liver enzymes (ALT; AST)</li> <li>• liver biochemical markers (albumin; glycogen)</li> <li>• liver tissue lipids (triglycerides, cholesterol)</li> </ul>	<ul style="list-style-type: none"> <li>• serum lipids are under Cardiovascular</li> <li>• biochemical markers such as albumin or glucose are under Hematological</li> <li>• liver tissue cytokines are under immune</li> <li>• serum glucose is under Metabolic</li> </ul>
<b>Immune Effects</b>	<ul style="list-style-type: none"> <li>• host resistance</li> <li>• allergic, autoimmune, or infectious disease</li> <li>• hypersensitivity</li> <li>• lymphocyte phenotyping or proliferation</li> <li>• lymphoid tissue weight, histopathology, cell counts</li> </ul>	<ul style="list-style-type: none"> <li>• red blood cells are under Hematological</li> <li>• non-immune measures of pulmonary function are under Respiratory</li> </ul>

Health Effect Category	Examples of Relevant Endpoints	Notes
	<ul style="list-style-type: none"> <li>• immune functional assays (e.g., antibody production, natural killer cell function, delayed-type hypersensitivity [DTH], mixed leukocyte reaction [MLR], cytotoxic T lymphocyte [CTL], phagocytosis or bacterial killing by monocytes)</li> <li>• immune responses in the respiratory system (includes asthma)</li> <li>• white blood cell counts serum immunological factors or cytokines</li> <li>• immune cell counts or immune-specific cytokines in non-lymphoid tissues</li> <li>• bone marrow histopathology and cell counts</li> </ul>	
<b>Metabolic Effects</b>	<ul style="list-style-type: none"> <li>• pancreatic effects relevant to diabetes</li> <li>• induced-obesity or body mass index</li> <li>• free fatty acids</li> <li>• serum glucose or insulin, or other measures related to diabetes</li> </ul>	
<b>Musculoskeletal/Connective Tissue</b>	<ul style="list-style-type: none"> <li>• bone weight and histopathology</li> <li>• muscular histopathology</li> </ul>	
<b>Neurological Effects</b>	<ul style="list-style-type: none"> <li>• brain weight</li> <li>• brain histopathology</li> <li>• nervous system histopathology</li> <li>• behavioral measures (including functional observation battery and cage-side observations)</li> </ul>	
<b>Ocular Effects</b>	<ul style="list-style-type: none"> <li>• eye histopathology</li> <li>• vision changes</li> <li>• eye irritation</li> </ul>	
<b>Renal Effects</b>	<ul style="list-style-type: none"> <li>• kidney weight</li> <li>• kidney histopathology</li> <li>• Urinary tract histopathology</li> <li>• bladder weight and histopathology</li> <li>• urinary measures (e.g., protein; volume; pH; specific gravity)</li> </ul>	
<b>Reproductive Effects</b>	<ul style="list-style-type: none"> <li>• dam health, body weight, food consumption</li> <li>• reproductive organ weight</li> </ul>	<ul style="list-style-type: none"> <li>• birth parameters (e.g., litter size; resorptions;</li> </ul>

<b>Health Effect Category</b>	<b>Examples of Relevant Endpoints</b>	<b>Notes</b>
	<ul style="list-style-type: none"> <li>• reproductive organ histopathology</li> <li>• markers of sexual differentiation or maturation (e.g., preputial separation in males; vaginal opening or estrous cycling in females)</li> <li>• mating parameters (e.g., success; mount latency)</li> <li>• sperm parameters (e.g., counts; motility)</li> <li>• reproductive hormones</li> </ul>	<p>implantations; viability) are under Developmental</p> <p>[NOTE: if data indicate altered birth parameters are likely attributable to female fertility, these data may be discussed under Female Reproductive]</p>
<b>Respiratory Effects</b>	<ul style="list-style-type: none"> <li>• lung weight and histopathology</li> <li>• nasal cavity histopathology</li> </ul>	

**Table S3: Types of study designs (human)**

<b>Study Design</b>	<b>Description</b>
Cross-sectional	Exposure and outcome are examined at the same point in time in a defined study population. Cannot determine if exposure came before or after outcome.
Cohort	A group of people is examined over time to observe a health outcome. Everyone belongs to the same population (e.g., general U.S. population; an occupational group; cancer survivors). All cohort studies (prospective or retrospective) consider exposure data from before the occurrence of the health outcome.
Case-control	Cases (people with the health outcome) and controls (people without the health outcome) are selected at the start of a study. Exposure is determined and compared between the two groups. A case-control study can be nested within a cohort.
Ecological	The unit of observation is at the group level (e.g., zip code; census tract), rather than the individual level. Ecological studies are often used to measure prevalence and incidence of disease. Cannot make inferences about an individual's risk based on an ecological study.
Controlled Trial	Exposure is assigned to subject and then outcome is measured.

**Table S4. HAWC Visual Inventory Table by Chemical**

**Inventory of HAWC data pivot visuals by chemical in this SEM.**

PFAS DTXSID	(Exposure Route) Health Category	HAWC URL
<b>(E)-Perfluoro(4-methyl-2-pentene)</b> DTXSID70880159	(Oral) Cardiovascular, Dermal, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Metabolic, Musculoskeletal, Nervous, Ocular, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-1-E-Perfluoro4-methyl-2-pentene-alloral/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-1-E-Perfluoro4-methyl-2-pentene-alloral/</a>
	(Inhalation) Cardiovascular, Dermal, Endocrine, Hematologic, Hepatic, Immune, Metabolic, Nervous, Reproductive, Respiratory, Urinary, Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-31a-E-Perfluoro4-methyl-2-pentene_Inh/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-31a-E-Perfluoro4-methyl-2-pentene_Inh/</a>
	(Inhalation) Developmental, Hepatic, Immune, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-31b-E-Perfluoro4-methyl-2-pentene_Inh/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-31b-E-Perfluoro4-methyl-2-pentene_Inh/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/E-Perfluoro4-methyl-2-pentene/">https://hawc.epa.gov/summary/visual/assessment/100500256/E-Perfluoro4-methyl-2-pentene/</a>
<b>1-(Perfluorohexyl)ethane</b> DTXSID30379857	(Oral) Cardiovascular, Dermal, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Musculoskeletal, Nervous, Ocular, Renal, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-2-1-Perfluorohexylethane_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-2-1-Perfluorohexylethane_Oral-All/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-1-Perfluorohexylethane-DTXSID-94b1/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-1-Perfluorohexylethane-DTXSID-94b1/</a>

<b>1,6-Diiodoperfluorohexane</b> DTXSID90190949	(Oral) Cardiovascular, Dermal, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Nervous, Renal, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-1-E-16-Diiodoperfluorohexane_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-1-E-16-Diiodoperfluorohexane_Oral-All/</a>
	(Inhalation) Cardiovascular, Endocrine, Hematologic, Hepatic, Immune, Metabolic, Nervous, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-21-16-Diiodoperfluorohexane_Inhalation_All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-21-16-Diiodoperfluorohexane_Inhalation_All/</a>
	(Inhalation) Cardiovascular, Dermal, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Metabolic, Musculoskeletal, Nervous, Ocular, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-35-16-Diiodoperfluorohexane_Inhalation-0b2/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-35-16-Diiodoperfluorohexane_Inhalation-0b2/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-16-Diiodoperfluorohexane-DTXS-829a/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-16-Diiodoperfluorohexane-DTXS-829a/</a>
<b>1,6-Divinylperfluorohexane</b> DTXSID20170895	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-16-Divinylperfluorohexane-DTX-5c0c/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-16-Divinylperfluorohexane-DTX-5c0c/</a>
<b>11-H-Perfluoroundecanoic acid</b> DTXSID5061954	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-11-H-Perfluoroundecanoic-acid-a4bf/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-11-H-Perfluoroundecanoic-acid-a4bf/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Not-Specified-in-TitleAbstrac-05b3/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Not-Specified-in-TitleAbstrac-05b3/</a>
<b>1H,1H,5H-Perfluoropentyl methacrylate</b> DTXSID90880131	(Oral) Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-4-1H1H5H-Perfluoropentyl-methacrylate_-8ebe/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-4-1H1H5H-Perfluoropentyl-methacrylate_-8ebe/</a>
	(Inhalation) Hepatic, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-22-16-Diiodoperfluorohexane_Inhalation_All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-22-16-Diiodoperfluorohexane_Inhalation_All/</a>

	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-1H1H5H-Perfluoropentyl-methac-7712/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-1H1H5H-Perfluoropentyl-methac-7712/</a>
<b>1H-Perfluorohexane</b> DTXSID20188995	(Oral) Cardiovascular, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Multi-System, Nervous, Reproductive, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-5-1H-Perfluorohexane_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-5-1H-Perfluorohexane_Oral-All/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-1H-Perfluorohexane-DTXSID20188995/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-1H-Perfluorohexane-DTXSID20188995/</a>
<b>2-(Perfluorohexyl)ethanethiol</b> DTXSID20379947	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Perfluorohexylethanethiol-D-ec01/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Perfluorohexylethanethiol-D-ec01/</a>
<b>2,2,2-Trifluoroethyl triflate</b> DTXSID1073365	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-222-Trifluoroethyl-triflate-D-aed1/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-222-Trifluoroethyl-triflate-D-aed1/</a>
<b>2,2,3,3,3-pentafluoropropanol</b> DTXSID4059966	(Inhalation) Cardiovascular, Dermal, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Multi-System, Musculoskeletal, Nervous, Ocular, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-23-22333-pentafluoropropanol_Inhalation_All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-23-22333-pentafluoropropanol_Inhalation_All/</a>
<b>2,3-Dichlorooctafluorobutane</b> DTXSID90870512	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-23-Dichlorooctafluorobutane-D-31bf/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-23-Dichlorooctafluorobutane-D-31bf/</a>
<b>2:1 Fluorotelomer alcohol</b> DTXSID4059966	(Oral) Developmental, Gastrointestinal, Ocular, Reproductive, Respiratory, and Whole Body <sup>a</sup>	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-6-21-Fluorotelomer-alcohol_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-6-21-Fluorotelomer-alcohol_Oral-All/</a>
	(Inhalation) Hematologic, Hepatic, Immune, Metabolic, Nervous, Ocular, Urinary, and Whole Body <sup>a</sup>	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-24-21-Fluorotelomer-alcohol_Inhalation_All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-24-21-Fluorotelomer-alcohol_Inhalation_All/</a>



	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-21-Fluorotelomer-alcohol-DTXS-db5c/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-21-Fluorotelomer-alcohol-DTXS-db5c/</a>
<b>2H,3H-Decafluoropentane</b> DTXSID30869884	(Inhalation) Dermal, Developmental, Endocrine, Hematologic, Hepatic, Multi-System, Musculoskeletal, Nervous, Ocular, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-25-2H3H-Decafluoropentane_Inhalation_All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-25-2H3H-Decafluoropentane_Inhalation_All/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2H3H-Decafluoropentane-DTXSID-3812/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2H3H-Decafluoropentane-DTXSID-3812/</a>
<b>2H-Perfluoro-2-propanol</b> DTXSID1022134	(Oral) Cardiovascular, Developmental, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Metabolic, Musculoskeletal, Nervous, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-7-2H-Perfluoro-2-propanol_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-7-2H-Perfluoro-2-propanol_Oral-All/</a>
	(Inhalation) Cardiovascular, Endocrine, Gastrointestinal, Hepatic, Immune, Musculoskeletal, Nervous, Ocular, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-26-2H-Perfluoro-2-propanol_Inhalation_All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-26-2H-Perfluoro-2-propanol_Inhalation_All/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2H-Perfluoro-2-propanol-DTXSI-9696/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2H-Perfluoro-2-propanol-DTXSI-9696/</a>
<b>2-Methoxy-2H-perfluoropropane</b> DTXSID80157187	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Methoxy-2H-perfluoropropane-e0b2/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Methoxy-2H-perfluoropropane-e0b2/</a>
<b>2-Vinyl(1-bromoperfluoroethane)</b> DTXSID4066389	(Inhalation) Cardiovascular, Hematologic, Hepatic, Immune, Metabolic, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-27-2-Vinyl1-bromoperfluoroethane_Inhal-12cf/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-27-2-Vinyl1-bromoperfluoroethane_Inhal-12cf/</a>

	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Vinyl1-bromoperfluoroethane-64e8/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Vinyl1-bromoperfluoroethane-64e8/</a>
<b>3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-hexane</b> DTXSID90870315	(Oral) Developmental, Endocrine, Hematologic, Hepatic, Immune, Nervous, Reproductive, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-9-3-Ethoxyperfluoro2-methylhexane_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-9-3-Ethoxyperfluoro2-methylhexane_Oral-All/</a>
	(Inhalation) Hepatic, Immune, Metabolic, Nervous, Reproductive, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-28-3-Ethoxyperfluoro2-methylhexane_Inh-0921/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-28-3-Ethoxyperfluoro2-methylhexane_Inh-0921/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-3-Ethoxyperfluoro2-methylhexa-fc0c/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-3-Ethoxyperfluoro2-methylhexa-fc0c/</a>
<b>6:2 Fluorotelomer phosphate monoester</b> (DTXSID90558000)	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-62-Fluorotelomer-phosphate-monoest/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-62-Fluorotelomer-phosphate-monoest/</a>
<b>6:2 FTCA</b> DTXSID50472556	(Oral) Hepatic, Metabolic, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-10-62-FTCA_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-10-62-FTCA_Oral-All/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Perfluorohexyl-ethanoic-aci-5b45/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Perfluorohexyl-ethanoic-aci-5b45/</a>
<b>7-H-Perfluoroheptanoate</b> (DTXSID20892929)	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-7-H-Perfluoroheptanoate/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-7-H-Perfluoroheptanoate/</a>
<b>8:2 Fluorotelomer thioether amido sulfonate</b> (DTXSID90892335)	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/82-Fluorotelomer-thioether-amido-sulfonate-DT-8e81/">https://hawc.epa.gov/summary/visual/assessment/100500256/82-Fluorotelomer-thioether-amido-sulfonate-DT-8e81/</a>
<b>ADONA</b> DTXSID00874026	(Oral) Cardiovascular, Endocrine, Hematologic, Hepatic, Immune, Metabolic, Nervous, Ocular, Reproductive, and Urinary	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-11a-ADONA_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-11a-ADONA_Oral-All/</a>

	(Oral) Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-11a-ADONA_Oral-male-90d-whole-body-and-4e06/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-11a-ADONA_Oral-male-90d-whole-body-and-4e06/</a>
	(Oral) Cardiovascular, Endocrine, Hematologic, Hepatic, Immune, Metabolic, Nervous, Reproductive, and Urinary	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-11c-ADONA_Oral-male-28d-all-except-who-115f/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-11c-ADONA_Oral-male-28d-all-except-who-115f/</a>
	(Oral) Developmental, Reproductive, and Whole Body <sup>a</sup>	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-11-ADONA_Oral-devtoxscreen/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-11-ADONA_Oral-devtoxscreen/</a>
	(Oral) Cardiovascular, Endocrine, Hematologic, Hepatic, Immune, Metabolic, Nervous, Reproductive, and Urinary	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-14-ADONA_Oral-female-28d-all-except-wholebo/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-14-ADONA_Oral-female-28d-all-except-wholebo/</a>
	(Oral) Cardiovascular, Endocrine, Hematologic, Hepatic, Immune, Metabolic, Nervous, Ocular, Reproductive, and Urinary	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-16-ADONA_Oral-female-90d-all-except-whole/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-16-ADONA_Oral-female-90d-all-except-whole/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Ammonium-48-dioxa-3H-perfluor-4ba6/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Ammonium-48-dioxa-3H-perfluor-4ba6/</a>
<b>Dichloromethyl(perfluorohexyl)ethylsilane</b> DTXSID00223797	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Dichloromethylperfluorohexyle-311c/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Dichloromethylperfluorohexyle-311c/</a>
<b>Heptafluoropropyl iodide</b> DTXSID1061073	(Inhalation) Developmental, Reproductive, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-30-Hexafluoroisopropanol_Inhalation_All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-30-Hexafluoroisopropanol_Inhalation_All/</a>
<b>Octafluoro-1,4-diiodobutane</b> DTXSID5030030	(Oral) Multi-system, Endocrine, Hepatic, Reproductive, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-17a-Octafluoro-14-diiodobutane_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-17a-Octafluoro-14-diiodobutane_Oral-All/</a>
	(Oral) Hepatic and Reproductive	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-17b-Octafluoro-14-diiodobutane_Abnorma-9359/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-17b-Octafluoro-14-diiodobutane_Abnorma-9359/</a>

<p><b>Perfluoro-1,4-diiodobutane</b> DTXSID30190948</p>	<p>(Inhalation) Cardiovascular, Dermal, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Musculoskeletal, Nervous, Ocular, Reproductive, Respiratory, Urinary, and Whole Body</p>	<p><a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-36-Perfluoro-14-diiodobutane_Inhalation_All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-36-Perfluoro-14-diiodobutane_Inhalation_All/</a></p>
	<p>(Inhalation) Endocrine, Gastrointestinal, Hepatic, Immune, Nervous, Ocular, Reproductive, Respiratory, and Urinary</p>	<p><a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-36a-Perfluoro-14-diiodobutane_Inhalation/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-36a-Perfluoro-14-diiodobutane_Inhalation/</a></p>
	<p>(Inhalation) Cardiovascular, Dermal, Hematologic, Metabolic, Musculoskeletal, and Whole Body</p>	<p><a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-36b-Perfluoro-14-diiodobutane_Inhalation/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-36b-Perfluoro-14-diiodobutane_Inhalation/</a></p>
	<p>(Inhalation) Cardiovascular, Endocrine, Hepatic, Immune, Nervous, Reproductive, Respiratory, Urinary, and Whole Body</p>	<p><a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-37-Perfluoro-14-diiodobutane_Inhalation-9db3/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-37-Perfluoro-14-diiodobutane_Inhalation-9db3/</a></p>
	<p>(Inhalation) Endocrine, Hematologic, Hepatic, Immune, Metabolic, Reproductive, Respiratory, Urinary, and Whole Body</p>	<p><a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-38-Perfluoro-14-diiodobutane_Inhalation-5875/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-38-Perfluoro-14-diiodobutane_Inhalation-5875/</a></p>
	<p>Literature Tagtree</p>	<p><a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoro-14-diiodobutane-DTX-9102/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoro-14-diiodobutane-DTX-9102/</a></p>
	<p><b>Perfluoro-2-methyl-3-pentanone</b> DTXSID4074932</p>	<p>(Inhalation) Endocrine, Hematologic, Hepatic, Immune, Multi-System, Nervous, Ocular, Reproductive, Urinary, and Whole Body</p>
<p>(Inhalation) Cardiovascular, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Multi-System, Nervous, Ocular, Reproductive, Respiratory, Urinary, and Whole Body</p>	<p><a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-39-Perfluoro-2-methyl-3-pentanone_Inhalation-c016/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-39-Perfluoro-2-methyl-3-pentanone_Inhalation-c016/</a></p>	

	(Inhalation) Hematologic, Hepatic, Immune, Metabolic, Multi-System, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-39c-Perfluoro-2-methyl-3-pentanone_Inh-a817/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-39c-Perfluoro-2-methyl-3-pentanone_Inh-a817/</a>
	(Inhalation) Developmental, Reproductive, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-39d-Perfluoro-2-methyl-3-pentanone_Inh-89d3/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-39d-Perfluoro-2-methyl-3-pentanone_Inh-89d3/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoro-2-methyl-3-pentanone-364e/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoro-2-methyl-3-pentanone-364e/</a>
<b>Perfluorododecanoic acid</b> DTXSID8031861	(Oral) Endocrine, Hepatic, Reproductive, Urinary, and Whole Body <sup>a</sup>	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-21-Perfluorododecanoic-acid_OralChronic/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-21-Perfluorododecanoic-acid_OralChronic/</a>
	(Oral) Endocrine, Hepatic, Metabolic, Nervous, Reproductive, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-22-Perfluorododecanoic-acid_Oral-Shortterm/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-22-Perfluorododecanoic-acid_Oral-Shortterm/</a>
	(Oral) Cardiovascular, Endocrine, Gastrointestinal, Hematologic, Hepatic, Immune, Metabolic, Musculoskeletal, Nervous, Reproductive, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-23a-Perfluorododecanoic-acid_Kato2014/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-23a-Perfluorododecanoic-acid_Kato2014/</a>
	(Oral) Developmental	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-23b-Perfluorododecanoic-acid_Oral-Kato-fa2c/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-23b-Perfluorododecanoic-acid_Oral-Kato-fa2c/</a>
	(Oral) Developmental, Endocrine, Multi-System, Reproductive, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-18-PFDoA_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-18-PFDoA_Oral-All/</a>
	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorododecanoic-acid-DTXS-db5d/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorododecanoic-acid-DTXS-db5d/</a>
	<b>Perfluoromethylcyclohexane</b> DTXSID5059874	Literature Tagtree

<b>TFA (sodium trifluoroacetate)</b> DTXSID0062715	(Oral) Hepatic and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-19-TFA-sodium-trifluoroacetate_Oral-All/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-19-TFA-sodium-trifluoroacetate_Oral-All/</a>
<b>Trideca-1,1,1,2,2,3,3,4,4,5,5,6,6-fluorohexane</b> DTXSID20188995	(Oral) Cardiovascular, Developmental, Endocrine, Nervous, Renal, Reproductive, Respiratory, Urinary, and Whole Body	<a href="https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-20-Trideca-1112233445566-fluorohexane_-459a/">https://hawc.epa.gov/summary/data-pivot/assessment/100500256/Figure-20-Trideca-1112233445566-fluorohexane_-459a/</a>
<b>Trimethoxy((perfluorohexyl)ethyl)silane</b> DTXSID80235136	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Trimethoxyperfluorohexylethyl-8933/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Trimethoxyperfluorohexylethyl-8933/</a>
<b>1-(Perfluorohexyl)octane (DTXSID20440585)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-1-Perfluorohexyloctane-DTXSID-8512/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-1-Perfluorohexyloctane-DTXSID-8512/</a>
<b>1,8-Diiodoperfluorooctane (DTXSID50335975)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-18-Diiodoperfluorooctane-DTXS-468b/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-18-Diiodoperfluorooctane-DTXS-468b/</a>
<b>11-Chloroeicoafluoro-3-oxaundecane-1-sulfonate (DTXSID40892507)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-11-chloroeicoafluoro-3-oxaund-6840/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-11-chloroeicoafluoro-3-oxaund-6840/</a>
<b>2-(N-Ethylperfluorooctanesulfonamido)acetate (DTXSID60892504)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-N-Ethylperfluorooctanesulf-47a9/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-N-Ethylperfluorooctanesulf-47a9/</a>
<b>2-(N-Ethylperfluorooctanesulfonamido)acetic acid (DTXSID5062760)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-N-Ethylperfluorooctanesulfo-2427/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-N-Ethylperfluorooctanesulfo-2427/</a>
<b>2-(N-Methylperfluorooctanesulfonamido)acetate (DTXSID00892503)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-N-Methylperfluorooctanesulf-9adb/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-N-Methylperfluorooctanesulf-9adb/</a>
<b>2-(N-Methylperfluorooctanesulfonamido)acetic acid (DTXSID10624392)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-N-Methylperfluorooctanesulf-dee4/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-N-Methylperfluorooctanesulf-dee4/</a>
<b>2,2,3,3,4,4,5-Heptafluorotetrahydro-5-(nonafluorobutyl)furan (DTXSID60871632)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2233445-Heptafluorotetrahydro-1891/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2233445-Heptafluorotetrahydro-1891/</a>

<b>2H-Perfluoro-2-decenoic acid (DTXSID60825615)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2H-Perfluoro-2-decenoic-acid--65bc/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2H-Perfluoro-2-decenoic-acid--65bc/</a>
<b>2H-Perfluoro-2-octenoic acid (DTXSID00892326)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2H-Perfluoro-2-octenoic-acid--74b5/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2H-Perfluoro-2-octenoic-acid--74b5/</a>
<b>2-Perfluorodecylethanoic acid (DTXSID40892325)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Perfluorodecyl-ethanoic-aci-1a6f/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Perfluorodecyl-ethanoic-aci-1a6f/</a>
<b>2-Perfluorooctylethanoic acid (DTXSID50451109)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Perfluorooctyl-ethanoic-aci-3c1f/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-2-Perfluorooctyl-ethanoic-aci-3c1f/</a>
<b>3-(Perfluoroethyl)propanol (DTXSID70869964)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-3-Perfluoroethylpropanol-DTXS-1069/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-3-Perfluoroethylpropanol-DTXS-1069/</a>
<b>3-(Perfluorohexyl)propanol (DTXSID70379871)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-3-Perfluorohexylpropanol-DTXS-3b01/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-3-Perfluorohexylpropanol-DTXS-3b01/</a>
<b>4,8-Dioxa-3H-perfluorononanoic acid (DTXSID40881350)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-48-Dioxa-3H-perfluorononanoic-892a/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-48-Dioxa-3H-perfluorononanoic-892a/</a>
<b>6:2/8:2Fluorotelomerphosphatediester (DTXSID20873415)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-6282-Fluorotelomer-phosphate--1f70/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-6282-Fluorotelomer-phosphate--1f70/</a>
<b>6:2Fluorotelomerphosphatediester (DTXSID50561590)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-62-Fluorotelomer-phosphate-di-fc99/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-62-Fluorotelomer-phosphate-di-fc99/</a>
<b>6:2Fluorotelomerthioetheramidodisulfonate (DTXSID70892333)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-62-Fluorotelomer-thioether-am-34da/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-62-Fluorotelomer-thioether-am-34da/</a>
<b>6:2Fluorotelomerthioetheramidodisulfonic acid (DTXSID90892330)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-62-Fluorotelomer-thioether-am-568d/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-62-Fluorotelomer-thioether-am-568d/</a>
<b>7:1Fluorotelomer alcohol (DTXSID5059793)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-</a>

		430XAgency-71-Fluorotelomer-alcohol-DTXS-7571/
<b>8:2Fluorotelomerphosphatediester (DTXSID90218051)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-82-Fluorotelomer-phosphate-di-5b5a/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-82-Fluorotelomer-phosphate-di-5b5a/</a>
<b>8:2Fluorotelomerphosphatemonoester (DTXSID60874027)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-82-Fluorotelomer-phosphate-mo-b64e/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-82-Fluorotelomer-phosphate-mo-b64e/</a>
<b>8:2Fluorotelomerthioetheramidossulfonic acid (DTXSID30892334)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-82-Fluorotelomer-thioether-am-e3be/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-82-Fluorotelomer-thioether-am-e3be/</a>
<b>9:1Fluorotelomer alcohol (DTXSID00369826)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-91-Fluorotelomer-alcohol-DTXS-ff20/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-91-Fluorotelomer-alcohol-DTXS-ff20/</a>
<b>9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (DTXSID80892506)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-9-chlorohexadecafluoro-3-oxan-7aea/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-9-chlorohexadecafluoro-3-oxan-7aea/</a>
<b>Heptafluoro-2-iodopropane (DTXSID5060982)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Heptafluoro-2-iodopropane-DTX-7090/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Heptafluoro-2-iodopropane-DTX-7090/</a>
<b>Heptafluoropropyl iodide (DTXSID1061073)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Heptafluoropropyl-iodide-DTXS-106b/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Heptafluoropropyl-iodide-DTXS-106b/</a>
<b>Hexaflumuron (DTXSID3032620)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Hexaflumuron-DTXSID3032620/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Hexaflumuron-DTXSID3032620/</a>
<b>Perfluoro-1,2-dimethylcyclobutane (DTXSID20880189)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoro-12-dimethylcyclobut-4af5/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoro-12-dimethylcyclobut-4af5/</a>
<b>Perfluoro-1,3,5-trimethylcyclohexane (DTXSID80380039)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoro-135-trimethylcyclohex-649c/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoro-135-trimethylcyclohex-649c/</a>
<b>Perfluoro-4-(perfluoroethyl)cyclohexylsulfonate (DTXSID20892328)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/Perfluoro-4-perfluoroethylcyclohexylsulfonate-c7f0/">https://hawc.epa.gov/summary/visual/assessment/100500256/Perfluoro-4-perfluoroethylcyclohexylsulfonate-c7f0/</a>



<b>Perfluorobutylmethylether (DTXSID4073120)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorobutyl-methyl-ether-D-3d37/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorobutyl-methyl-ether-D-3d37/</a>
<b>Perfluorodecanesulfonate (DTXSID00873014)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorodecanesulfonate-DTXS-9de1/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorodecanesulfonate-DTXS-9de1/</a>
<b>Perfluorodecanesulfonic acid (DTXSID3040148)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorodecanesulfonic-acid--1033/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorodecanesulfonic-acid--1033/</a>
<b>Perfluoroisohexane (DTXSID40188992)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoroisohexane-DTXSID40188992/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoroisohexane-DTXSID40188992/</a>
<b>Perfluoromethyldecalin (DTXSID00871631)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoromethyldecalin-DTXSID-782f/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoromethyldecalin-DTXSID-782f/</a>
<b>Perfluorononanesulfonate (DTXSID60873010)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorononanesulfonate-DTXS-5155/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorononanesulfonate-DTXS-5155/</a>
<b>Perfluorononanesulfonic acid (DTXSID8071356)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorononanesulfonic-acid--a770/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorononanesulfonic-acid--a770/</a>
<b>Perfluorooctane (DTXSID0059794)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorooctane-DTXSID0059794/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorooctane-DTXSID0059794/</a>
<b>Perfluorooctanesulfonamidoethanol (DTXSID80892329)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorooctanesulfonamido-et-5a57/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorooctanesulfonamido-et-5a57/</a>
<b>Perfluoropentanesulfonate (DTXSID70892479)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoropentanesulfonate-DTX-1875/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluoropentanesulfonate-DTX-1875/</a>
<b>Perfluoropentanesulfonic acid (DTXSID8062600)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-</a>

		430XAgency-Perfluoropentanesulfonic-acid-23fa/ <a href="https://hawc.epa.gov/summary/visual/assessment/100500256/Perfluoropropanoate-DTXSID10892478/">https://hawc.epa.gov/summary/visual/assessment/100500256/Perfluoropropanoate-DTXSID10892478/</a>
<b>Perfluoropropanoate (DTXSID10892478)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorosebacic-acid/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Perfluorosebacic-acid/</a>
<b>Perfluorosebacic acid (DTXSID50184728)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Trifluoroacetate-DTXSID60162799/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Trifluoroacetate-DTXSID60162799/</a>
<b>Trifluoroacetate (DTXSID60162799)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Trifluoroacetic-anhydride-DTX-cd2d/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430XAgency-Trifluoroacetic-anhydride-DTX-cd2d/</a>
<b>Trifluoroaceticanhydride (DTXSID90861920)</b>	Literature Tagtree	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/Animal-SQE-Heatmap/">https://hawc.epa.gov/summary/visual/assessment/100500256/Animal-SQE-Heatmap/</a>
<b>Animal SQE Heatmap</b>	Heatmap <sup>a</sup>	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/Animal-SQE-Heatmap_nonECHA/">https://hawc.epa.gov/summary/visual/assessment/100500256/Animal-SQE-Heatmap_nonECHA/</a>
<b>Animal SQE Heatmap_nonECHA</b>	Heatmap <sup>a</sup>	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430-HAWC-Literature-Inventory-Tree/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430-HAWC-Literature-Inventory-Tree/</a>
<b>PFAS 430</b>	Literature Tagtree <sup>a</sup>	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-XAgency-HAWC-Literature-Inventory-Tree/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-XAgency-HAWC-Literature-Inventory-Tree/</a>
<b>Additional PFAS of Interest</b>	Literature Tagtree <sup>a</sup>	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430-XAgency-Evidence-Map-Dashboard/">https://hawc.epa.gov/summary/visual/assessment/100500256/PFAS-430-XAgency-Evidence-Map-Dashboard/</a>
<b>PFAS 430/Additional PFAS of Interest Evidence Map Dashboard</b>	Embedded External Website <sup>a</sup>	<a href="https://hawc.epa.gov/summary/visual/assessment/100500256/Comprehensive-PFAS-Dashboard/">https://hawc.epa.gov/summary/visual/assessment/100500256/Comprehensive-PFAS-Dashboard/</a>
<b>Comprehensive PFAS Dashboard</b>	Embedded External Website <sup>a</sup>	

<sup>a</sup>These visuals are also included as figures in the manuscript

## References

1. Improving efficiency of systematic reviews through machine learning for automated record deduplication and text analytics for iterative keyword streamlining. Society of Toxicology 57th Annual Meeting and ToxExpo; March 11-15 2018; San Antonio, Texas.
2. U.S. EPA. IRIS toxicological review of perfluorobutanoic acid (PFBA, CASRN 375-22-4) and related salts. Washington, D.C.: U.S. Environmental Protection Agency :: U.S. EPA; 2022. EPA/635/R-22/277Fa. [https://iris.epa.gov/ChemicalLanding/&substance\\_nmbr=701](https://iris.epa.gov/ChemicalLanding/&substance_nmbr=701)
3. U.S. EPA. IRIS toxicological review of perfluorohexanoic acid [PFHxA, CASRN 307-24-4] and related salts. Washington, D.C.: U.S. Environmental Protection Agency :: U.S. EPA; 2023. EPA/635/R-23/027Fa. [https://iris.epa.gov/ChemicalLanding/&substance\\_nmbr=704](https://iris.epa.gov/ChemicalLanding/&substance_nmbr=704)
4. U.S. EPA. Public comment draft: toxicity assessment and proposed maximum contaminant level goal for perfluorooctanoic acid (PFOA) in drinking water. 2023. EPA/822/P-23/005. [https://www.epa.gov/system/files/documents/2023-03/MAIN\\_Proposed%20MCLG%20for%20PFOA%20in%20Drinking%20Water\\_3.9.23\\_For%20Proposal.pdf](https://www.epa.gov/system/files/documents/2023-03/MAIN_Proposed%20MCLG%20for%20PFOA%20in%20Drinking%20Water_3.9.23_For%20Proposal.pdf)
5. U.S. EPA. Systematic review protocol for the PFAS IRIS assessments. 2021. EPA/635/R-19/050. [https://cfpub.epa.gov/ncea/iris\\_drafts/recordisplay.cfm?deid=345065](https://cfpub.epa.gov/ncea/iris_drafts/recordisplay.cfm?deid=345065)
6. U.S. EPA. IRIS toxicological review of perfluorodecanoic acid (PFDA) and related salts (public comment and external review draft). 2023. EPA/635/R-23/056a. [https://cfpub.epa.gov/ncea/iris\\_drafts/recordisplay.cfm?deid=354408](https://cfpub.epa.gov/ncea/iris_drafts/recordisplay.cfm?deid=354408)
7. U.S. EPA. Human health toxicity values for perfluorobutane sulfonic acid (CASRN 375-73-5) and related compound potassium perfluorobutane sulfonate (CASRN 29420-49-3). Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development; 2021. EPA/600/R-20/345F. <https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=350888>
8. U.S. EPA. IRIS toxicological review of perfluorohexanesulfonic acid (PFHxS) and related salts (public comment and external review draft). 2023. EPA/635/R-23/056. [https://cfpub.epa.gov/ncea/iris\\_drafts/recordisplay.cfm?deid=355410](https://cfpub.epa.gov/ncea/iris_drafts/recordisplay.cfm?deid=355410)
9. U.S. EPA. Public comment draft toxicity assessment and proposed maximum contaminant level goal for perfluorooctane sulfonic acid (PFOS) in drinking water. 2023. EPA/822/P-23/007. [https://www.epa.gov/system/files/documents/2023-03/MAIN\\_Proposed%20MCLG%20for%20PFOS%20in%20Drinking%20Water\\_3.9.23\\_For%20Proposal\\_0.pdf](https://www.epa.gov/system/files/documents/2023-03/MAIN_Proposed%20MCLG%20for%20PFOS%20in%20Drinking%20Water_3.9.23_For%20Proposal_0.pdf)
10. U.S. EPA. Human health toxicity values for hexafluoropropylene oxide (HFPO) dimer acid and its ammonium salt (CASRN 13252-13-6 and CASRN 62037-80-3). Also known as "GenX chemicals." Final report. Washington, DC: U.S. Environmental Protection Agency, Office of Water; 2021. EPA-822R-21-010.
11. U.S. EPA. ORD human health toxicity value for lithium bis [(trifluoromethyl)sulfonyl]azanide (HQ-115). 2023. EPA/600/R-22/195F.
12. U.S. EPA. IRIS Program Outlook. 2020. <https://www.epa.gov/iris/iris-program-outlook>