

EPA Tools and Resources Webinar

CompTox Chemicals Dashboard: *Data and Tools to Support Chemical and Environmental Risk Assessment*

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September 11, 2019

Office of Research and Development

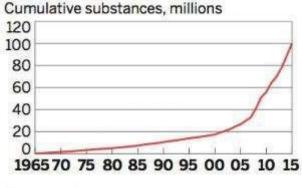


Problem: Too Many Chemicals, Too Few Resources

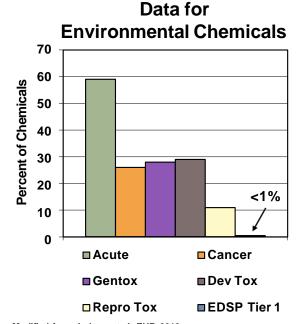
 Timely characterization of human and ecological risk posed by thousands of existing and emerging chemicals is a critical challenge to protect public health and the environment

Chemical & Engineering News 2015 93(32), p14

EXPONENTIAL GROWTH In the past 10 years, CAS has added 75 million entries to its registry—triple the number added during the first 40 years.



SOURCE: CAS



Modified from Judson et al., EHP 2010





- Develop a "first-stop-shop" for data as an integration node for environmental chemical data to support EPA and partner decision-making:
 - Centralized location for relevant chemical data
 - Chemistry, exposure, hazard, dosimetry
 - Combination of existing data and predictive models
 - Publicly accessible, periodically updated, curated
- Ease of access to data results in efficiency and accelerates chemical risk assessment



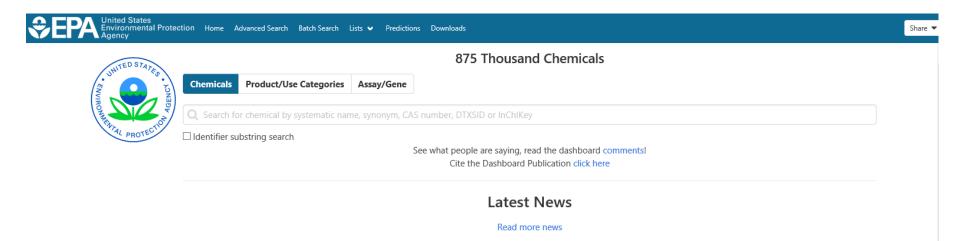
EPA's CompTox Chemicals Dashboard

A publicly accessible website delivering:

- ~875,000 chemicals with related property data
- Experimental and predicted physicochemical property data
- Integration to "biological assay data" for 1000's of chemicals
- Information regarding consumer products containing chemicals
- Links to other agency websites and public data resources
- "Literature" searches for chemicals using public resources
- "Batch searching" for thousands of chemicals
- Downloadable Open Data for reuse and repurposing
- Many features (only highlighting a few)
- Access to multiple tools (direct data interpolation and predictive) for multiple disciplines
- <u>https://www.epa.gov/chemical-research/comptox-chemicals-dashboard</u>



EPA CompTox Chemicals Dashboard



August 9th 2019 - New release (3.0.9) in time for ACS Fall Meeting

August 14th, 2019 at 4:39:37 PM

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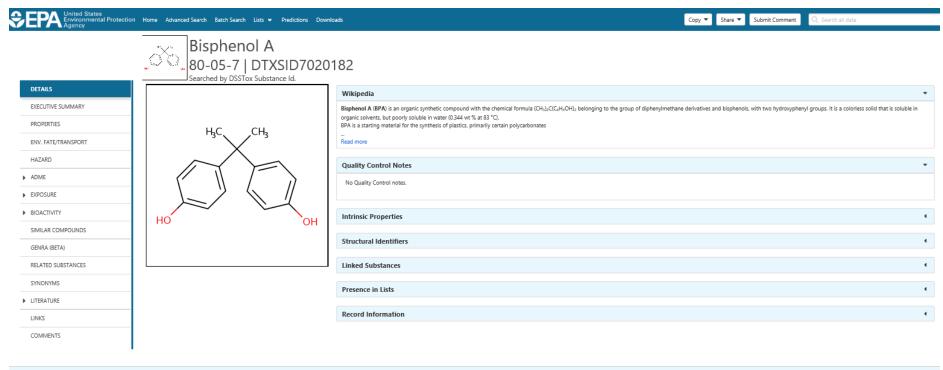
A new version of the Dashboard has been released in time for the ACS Fall meeting. Included in this release are updates to data in the ToxVal database, an update to the in vitro database (version 3.2), and the release also addresses a number of minor bugs and includes a short list of additional functionality as described in the Release Notes here.

• • • •

https://comptox.epa.gov/dashboard



Detailed Chemical Pages



unite State	Discover.	Connect.	Ask.
	About/Disclaimer	ACTOR	Contact
	Accessibility	DSSTox	Help
A PROTECT	Privacy	Downloads	





SEPA United States Environmental Protecti Agency	on Home Advanced Search Batch Search Lists 🛩 Predictions Dow	nloads		Copy 👻 Share 👻 Submit Comment 🔍 Search all data	
DETAILS	Bisphenol A 80-05-7 DTXSID70201 Searched by DSSTox Substance Id.				
		Wikipedia			
PROPERTIES		Quality Control Notes			•
ENV. FATE/TRANSPORT	H ₃ C CH ₃	Intrinsic Properties			4
HAZARD		Structural Identifiers			•
ADME EXPOSURE		Linked Substances			•
 BIOACTIVITY 		Presence in Lists			4
SIMILAR COMPOUNDS	НО ОН	Record Information			•
GENRA (BETA)		Citation II C. Environmental D	and the American Charrists Darkhand http://www.american.org/		
RELATED SUBSTANCES			rotection Agency. Cnemistry Dashboard. https://comptox.epa.gov/da	shboard/DTXSID7020182 (accessed September 03, 2019), Bisphenol A	
SYNONYMS					
▶ LITERATURE					
LINKS		Level 2: Expert curated, unique chemi			
COMMENTS			m high quality EPA source, unique chemical identifiers have no confl m ChemID, unique chemical identifiers have no conflicts in PubChem		
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Properties

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DETAILS	Summary V							
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HAZARD	Property	Experimental average	Predicted average \$	Experimental median	Predicted median	Experimental range	Predicted range	Unit
ADME	LogP: Octanol-Water	3.32 (1)	3.29		3.43	3.32	2.40 to 3.64	-
XPOSURE	Melting Point	155 (7)	139	156	138	153 to 156	125 to 157	°C
IOACTIVITY	Boiling Point	200 (1)	363		360	200	343 to 401	°C
	Water Solubility	5.26e-4 (1)	9.62e-4		1.00e-3	5.26e-4	5.35e-4 to 1.31e-3	mol/L
IMILAR COMPOUNDS	Vapor Pressure		8.37e-7		3.43e-7		6.83e-8 to 2.59e-6	mmHg
ENRA (BETA)	Flash Point	-	190		190	-	188 to 192	*C
ELATED SUBSTANCES	Surface Tension	•	46.0			•	46.0	dyn/cm
YNONYMS	Index of Refraction	-	1.60			-	1.60	-
	Molar Refractivity		68.2			-	68.2	cm^3
ITERATURE	Polarizability	•	27.0			•	27.0	Å^3
INKS	Density	-	1.17		1.17	-	1.14 to 1.20	g/cm^3
OMMENTS	Molar Volume		200			-	200	cm^3
	Thermal Conductivity	-	150			-	150	mW/(m*K)
	Viscosity		9.66				9.66	cP
	Henry's Law	-	1.26e-7			-	1.26e-7	atm-m3/mole
	LogKoa: Octanol-Air	-	8.38			-	8.38	-



Properties, Environmental Fate and Transport

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GENRA (BETA)	HAZARD							
RELATED SUBSTANCES		Property	Experimental average	Predicted average	Experimental median	Predicted median	Experimental range	¢ Pr
SYNONYMS	ADME	Bioaccumulation Factor	-	173			-	17
LITERATURE	EXPOSURE	Bioconcentration Factor Soil Adsorp. Coeff. (logKoc)	133 (93)	93.5 1.34e+3	150	72.0 1.34e+3	1.70 to 250	43
LINKS	BIOACTIVITY	Atmos. Hydroxylation Rate	•	1.54e+5 1.64e-11		1.348+3	-	1.
COMMENTS	SIMILAR COMPOUNDS	Biodeg. Half-Life		15.1				15
	GENRA (BETA)	Fish Biotrans. Half-Life (Km)	1.86 (1)	1.63			1.86	1.6
	RELATED SUBSTANCES				6 record	5		
	SYNONYMS							
	LITERATURE							
	LINKS							



Chemical Hazard Data

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DETAILS	_		-				Hazard					
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HAZARD	La Downle	oad 🔻 Colu	mns ×									Search query
ADME												
EXPOSURE	More 🕈	Priority 🗘	Type 🗘	Subtype	Risk assessment class	Value 🗘	Units 🗘	Study type 🗘	Exposure route 🛛 🗘	Species \$	Subsource 🗘	Source 4
BIOACTIVITY		7	MEG	Short-term Critical Air	short-term	500	mg/m3	-	inhalation	-	TG 230 Military Exposure Guidelines Table	DOD
SIMILAR COMPOUNDS		7	MEG	Short-term Marginal Air	short-term	100	mg/m3	-	inhalation	-	TG 230 Military Exposure Guidelines Table	DOD
GENRA (BETA)		7	MEG	Short-term Negligible Air	short-term	15	mg/m3	-	inhalation	-	TG 230 Military Exposure Guidelines Table	DOD
RELATED SUBSTANCES		7	MEG	Soil Negligible Soil	chronic	106000	mg/kg	-	soil	-	TG 230 Military Exposure Guidelines Table	DOD
SYNONYMS		7	MEG	Long-Term, 5L/d Negligible Water	chronic	7	mg/L	-	oral	-	TG 230 Military Exposure Guidelines Table	DOD
LITERATURE		6	RfD	-	chronic	0.05	mg/kg-day	-	oral	rat	Wignall	Wignall
LINKS		5	RfD		chronic	0.05	mg/kg-day	-	-	-	MSC Table 5	Pennsylvania DEP ToxValues
COMMENTS		4	RfD	•	chronic	0.05	mg/kg-day	chronic	oral	rat	IRIS	Chiu
		3	RfD	Reference Dose for Subchronic Oral Exposure (SRfD)	chronic	0.6	mg/kg-day	-	oral	rat	EPA/ORNL/OLEM	HEAST
		1	RfD	•	chronic	0.05	mg/kg-day	-	oral	-	EPA NCEA	IRIS
							10 records					



Chemical Hazard Data

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COMMENTS			7	LOAEL	Repeated dose toxicity: oral	subacute	600	mg/kg-day	subacute	oral	rat	eChemPortal	ECHA
	▶ BIOACTIVITY		7	NOEL	Repeated dose toxicity: oral	multigenerational reproductive	30	ppm	multigeneration	oral	mouse	eChemPortal	ECHA
	SIMILAR COMPOUNDS		7	NOAEL	Repeated dose toxicity: oral	multigenerational reproductive	300	ppm	multigeneration	oral	mouse	eChemPortal	ECHA
	GENRA (BETA)					multigenerational reproductive		ppm	mutigeneration		mouse		
	RELATED SUBSTANCES		7	NOAEL	Repeated dose toxicity: oral	multigenerational reproductive	300	ppm	multigeneration	oral	mouse	eChemPortal	ECHA
			7	NOEL	Repeated dose toxicity: oral	multigenerational reproductive	75	ppm	multigeneration	oral	rat	eChemPortal	ECHA
	SYNONYMS		7	NOAEL	Repeated dose toxicity: oral	multigenerational reproductive	750	ppm	multigeneration	oral	rat	eChemPortal	ECHA
	► LITERATURE		7	NOAEL	Repeated dose toxicity: oral	multigenerational reproductive	750	ppm	multigeneration	oral	rat	eChemPortal	ECHA
	LINKS		7	NOEL	-	repeat dose	40		repeat dose	oral	rat	Japan NITE	HESS
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ADME			05-7 DT		020182							
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RELATED SUBSTANCES	ENV. FATE/TRANSPORT		но	80)-05-7 DTXSID	70201	82					
SYNONYMS	HAZARD			Sea	rched by DSSTox Substance I	d.						
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	▶ BIOACTIVITY											
	SIMILAR COMPOUNDS	ENV. FATE/TRANSPORT					🛉 Hu	man 🔎	Eco			
	GENRA (BETA)	HAZARD	📩 Down	load 🔻 🛛 C	olumns ~							
	RELATED SUBSTANCES	► ADME										
	SYNONYMS	EXPOSURE	More 🕈	Priority 🗘	Туре 🗘	Subtype 🗘	Risk assessment class 🗘	Value 🗘	Units 🗘	Study type 🗘	Exposure route 🗘	s
	▶ LITERATURE	BIOACTIVITY		4	HBSL	Noncancer	chronic	300	ug/L	-	oral	-
		P DIOACHVITT		2	screening level (residential Soil)	THQ = 0.1	chronic	320	mg/kg	-	-	-
-	LINKS	SIMILAR COMPOUNDS		2	screening level (industrial soil)	THQ = 0.1	chronic	4100	mg/kg	-	-	
		GENRA (BETA)										
		RELATED SUBSTANCES		2	screening level (tap water)	THQ = 0.1	chronic	77	ug/L	-	-	-
11		SYNONYMS		2	risk-based SSL	THQ = 0.1	chronic	5.8	mg/kg	-	-	-
				2	screening level (residential Soil)	THQ = 1	chronic	3200	mg/kg	-	-	-
		► LITERATURE		2	screening level (industrial soil)	THQ = 1	chronic	41000	mg/kg	-	-	-



Sources of Exposure to Chemicals

SEPA United States Environmental Protection	n Home Advanced Search Batch Search Lists 🕶 Predictions Downloads		Copy 🔻 Share 💌	Submit Comment	Q Search all data	
DETAILS EXECUTIVE SUMMARY PROPERTIES	Bisphenol A 80-05-7 DTXSID7020182 Searched by DSSTox Substance Id.	Product and Use Categories (PUCs) 🚺			Search query	
ENV. FATE/TRANSPORT	Product or Use Categorization \$	Categorization type	Number of Unique Products			~
	adhesive	CPCat Cassette	17			
HAZARD	manufacturing, metals	CPCat Cassette	17			
ADME	paint	CPCat Cassette	16			
	manufacturing, machines	CPCat Cassette	12			
PRODUCT & USE CATEGORIES	manufacturing, plastics	CPCat Cassette	11			
CHEMICAL WEIGHT FRACTION	building_material, flooring	CPCat Cassette	8			
CHEMICAL FUNCTIONAL USE	construction	CPCat Cassette	8			
TOXICS RELEASE INVENTORY	surface_treatment, metals	CPCat Cassette	8			
MONITORING DATA	stabilizer	CPCat Cassette	7			
EXPOSURE PREDICTIONS	building_construction	CPCat Cassette	6			
PRODUCTION VOLUME	First	<< < 1 2 3 4 5 6 7 8 9 10 > >>	Last			
		Showing 1 to 10 of 117 records				
BIOACTIVITY						
SIMILAR COMPOUNDS						
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RELATED SUBSTANCES						
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Sources of Exposure to Chemicals

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		Bisphenol A				
3	PEPA United States Environmental Protection	Dn Home Advanced Search Batch Search Lists ♥ Predictions Downloads			Copy 🔻	Share Submit Comment Q Search all data
DETAILS EXECUTIV PROPERTI ENV. FATE HAZARD	DETAILS EXECUTIVE SUMMARY	Bisphenol A 80-05-7 DTXSID7020182 Searched by DSSTox Substance Id.	Toxics Release Inven	tory		
ADME EXPOSUR PROF	PROPERTIES ENV. FATE/TRANSPORT HAZARD	2015 TRI Factsheet: Chemical - 4,4'-ISOPROPYLIDENEDIPHENOL, 000 Data Source: 2017 Updated Dataset (released April 2019) The Toxics Release Inventory (TRI) tracks the management of certain toxic chemicals that may pose a thr		ties in the U.S. must report a	annually how much of each ch	nemical is recycled, combusted for energy recovery,
	ADME EXPOSURE	treated for destruction, and disposed of or otherwise released on- and off-site. This information is collectiv Map of TRI Facilities Reporting 4,4'-ISOPROPYLIDENEDIPHENOL	Pely referred to as production-related waste managed. Quick Facts for 20	15 Chemical	United States	
MON	PRODUCT & USE CATEGORIES CHEMICAL WEIGHT FRACTION CHEMICAL FUNCTIONAL USE		Number of TRI Facilities: Total Production- Related Waste Managed:	120 15.8 million lbs	22,241 27.4 billion lbs	
BIOACTIV SIMILAR (TOXICS RELEASE INVENTORY MONITORING DATA	2 UNITED STATE	Total On-site and Off-site Disposal or Other Releases:		3.4 billion lbs	
GENRA (B	EXPOSURE PREDICTIONS PRODUCTION VOLUME	NEXICO	Total On-site: <u>Air:</u> <u>Water:</u> <u>Land:</u>	39.4 thousand lbs28.7 thousand lbs4.4 thousand lbs6.2 thousand lbs	2.9 billion lbs688.9 million lbs198.9 million lbs2.0 billion lbs	
SYNONYA	BIOACTIVITY SIMILAR COMPOUNDS GENRA (BETA)	Esri, HERE, Germin, FAO, NOAA, EPA	Total Off-site:	2.5 million lbs	505.3 million lbs	
	RELATED SUBSTANCES	Under the Pollution Prevention Act of 1990, TRI collects information to track industry progress in reducing preferred management method is recycling, followed by energy recovery, treatment, and as a last resort, of	waste generation and moving towards safer waste management			ste at its source (source reduction). For waste that is genera
_	L ITEDATI DE	The 10-ste Manual 10-sector	Production-relate	d waste managed		



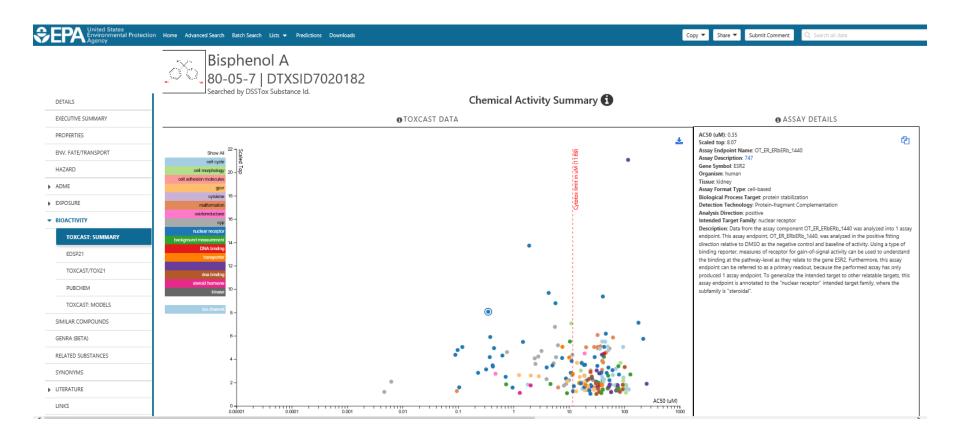
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Sources of Exposure to Chemicals

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ENV. FATE HAZARD ADME EXPOSUR PROI	DETAILS EXECUTIVE SUN PROPERTIES ENV. FATE/TRAI HAZARD ADME	DETAILS EXECUTIVE SUMMARY PROPERTIES	Bisphenol A 80-05-7 DT Searched by DSSTox Subst	tance Id.	mination Survey (NHANES) Inferences (mg/kg-bw/d	day)
CHEN		ENV. FATE/TRANSPORT	Demographic	Lower 95th Limit	Upper 95th Limit	(
TOXI	PRODUCT		Ages 6-11	3.80e-5	4.92e-5	
MON	CHEMICAL	HAZARD	Ages 12-19	2.55e-5	3.38e-5	
EXPC	CHEMICAL	ADME	Ages 20-65	2.79e-5	3.27e-5	
PROL			Ages 65+	1.91e-5	2.31e-5	
BIOACTIV	TOXICS RE	PRODUCT & USE CATEGORIES	BMI > 30	2.38e-5	2.74e-5	
SIMILAR (MONITORI	CHEMICAL WEIGHT FRACTION	BMI < 30	3.02e-5	3.30e-5	
GENRA (B	EXPOSURE	CHEMICAL FUNCTIONAL USE	Repro. Age Females	2.83e-5	3.31e-5	
RELATED	PRODUCTI		Females	2.58e-5	3.03e-5	
	BIOACTIVITY	TOXICS RELEASE INVENTORY	Males Total	2.94e-5 2.86e-5	3.37e-5 3.08e-5	
SYNONYM		MONITORING DATA		2.008-5	3.008-5	
N LITERATII	SIMILAR COMP	EXPOSURE PREDICTIONS			10 records	
	GENRA (BETA)	PRODUCTION VOLUME				
	RELATED SUBST	BIOACTIVITY	-			
	SYNONYMS	SIMILAR COMPOUNDS	_			
_	L ITEDATI DE	GENRA (BETA)	_			
		RELATED SUBSTANCES	_			
14		SYNONYMS	-			
		211001102				

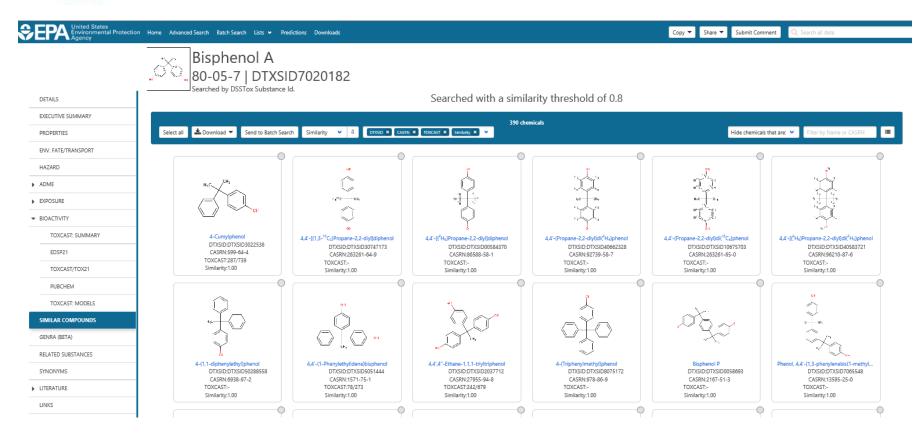


In Vitro Bioassay Screening ToxCast Summary





Similar Compounds







Agency	tection Home	Advanced	d Search	Batch Search Lists 🗸 Predictions Downloads			Copy 🔻 Share 🔻 Su	ubmit Comment		
	10	HC CH	80-	Sphenol A 05-7 DTXSID7020182 ned by DSSTox Substance Id.						
DETAILS					Abstr	act Sifter				
EXECUTIVE SUMMARY	1) :	Select PubM	led start	ting point query then 2) click on Retrieve. 🚯			Optionally, edit the query I	before retrieving.		
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	То	find articles	quickly	, enter terms to sift abstracts. 🚯				Download / Send to Download Sifter	r for Exce	cel
EXPOSURE	То	find articles		r, enter terms to sift abstracts. 🚯		Authors		Download / Send to Download Sifte Journal	r for Exce	
EXPOSURE		1	Year		of Health and Regulatory	Authors Wazir, Mokbel				
EXPOSURE BIOACTIVITY		PMID	Year 2019	Title	, ,	Wazir; Mokbel	inberg; Ferguson; Calafat;	Journal	Re √	
EXPOSURE BIOACTIVITY SIMILAR COMPOUNDS		PMID 31471387	Year 2019 2019	Title Bisphenol A: A Concise Review of Literature and a Discussion	late metabolites and bisp	Wazir; Mokbel		Journal In vivo (Athens, Greece)	Re √	
EXPOSURE BIOACTIVITY SIMILAR COMPOUNDS		PMID 31471387 31470855	Year 2019 2019 2019	Title Bisphenol A: A Concise Review of Literature and a Discussion Association of urinary concentrations of early pregnancy phtha	late metabolites and bisp	Wazir; Mokbel Chin; Jukic; Wilcox; We Yeum; Ju; Cox; Zhang;		Journal In vivo (Athens, Greece) Environmental health : a global access science so	Re √	
EXPOSURE BIOACTIVITY SIMILAR COMPOUNDS GENRA (BETA)		PMID 31471387 31470855 31468552	Year 2019 2019 2019 2019 2019	Title Bisphenol A: A Concise Review of Literature and a Discussion Association of urinary concentrations of early pregnancy phtha Association between peri-conceptional bisphenol A exposure in Early Life Exposure in Mexico to ENvironmental Toxicants (ELI	late metabolites and bisp n women and men and ti EMENT) Project.	Wazir; Mokbel Chin; Jukic; Wilcox; We Yeum; Ju; Cox; Zhang; Perng; Tamayo-Ortiz; Ta	Stanford; Porucznik	Journal In vivo (Athens, Greece) Environmental health : a global access science so Paediatric and perinatal epidemiology	Re √	
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genra (beta)	T						• •	-	-	-	-
RELATED SUBSTANCES	ТВВРА	tetrabromobisphenol A OR TB	BPA			L	15	40			52
SYNONYMS	трнр	triphenyl phosphate					8	10			21
	TDCPP/TDCIPP	tris(1,3-dichloro-2-propyl)pho	osphate OR 136	574-84-5 OR 1	TDCPP		9	14	18	24	33
GOOGLE SCHOLAR	TCEP	Tris-2-chloroethyl phosphate	OR 115-96-8				12	15	12	24	11
	HBCDD	Hexabromocyclododecane					16	16	32	43	29
	Melamine	Melamine					100	308	31	35	23
	BDE-100	2,2',4,4',6-Pentabromodiphen	yl ether OR BI	DE-100 OR 18	39084-64	4-8	10	26	72	81	57
	нвв	hexabromobenzene					0	1	1	2	3
	DBP	2,4-dibromophenol					2	1	2	0	2
	Dechlorane	dechlorane					6	4	4	7	7
	Organophosphate family	Organophosphates					1277	1981	725	3189	796



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	Bisphenol A 80-05-7 DTX Searched by DSSTox Substar	SID7020182			
DETAILS	General	Toxicology	Publications	Analytical	Prediction
EXECUTIVE SUMMARY	EPA Substance Registry Service	Actor	Toxline	C RSC Analytical Abstracts	2D NMR HSQC/HMBC Prediction
PROPERTIES	# Household Products Database	^{α4} 2 DrugPortal	G Google Books	A Tox21 Analytical Data	Carbon-13 NMR Prediction
PROPERTIES	*** PubChem		G Google Scholar	MONA: MassBank North America	Proton NMR Prediction
ENV. FATE/TRANSPORT	② Chemspider	(a) ChemView	G Google Patents	and mzCloud	Ø LSERD
HAZARD	(a) CPCat	© СТD	PPRTVWEB	NST NIST IR Spectrum	
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ADME	W Wikipedia	Gene-Tox	IRIS Assessments	4 MassBank	
EXPOSURE	Q MSDS Lookup	HSDB	😩 EPA HERO	🌢 NEMI: National Environmental Methods Index	
EAROSONE	ChEMBL	ToxCast Dashboard 2	WINDSH Skin Notation Profiles	MST NIST Antoine Constants	
BIOACTIVITY	Q Chemical Vendors	LactMed	KIOSH Pocket Guide	TR Spectra on PubChem	
SIMILAR COMPOUNDS	ToxPlanet	ATSDR Toxic Substances Portal	C RSC Publications		
	ACS Reagent Chemicals	ACToR PDF Report	BioCaddie DataMed		
GENRA (BETA)	ChemHat: Hazards and Alternatives Toolbox	Toxics Release Inventory	🖆 Springer Materials		
RELATED SUBSTANCES	🗮 Wolfram Alpha	(MIT CREST	Federal Register		
	ECHA Infocard	National Air Toxics Assessment	Regulations.gov		
SYNONYMS	ChemAgora	Superfund Chemical Data matrix	Bielefeld Academic Search Engine		
LITERATURE	ChEBI	ECOTOX	CORE Literature Search		
	NST NIST Chemistry Webbook	MIOSH IDLH Values			
LINKS	Wikidata	International Toxicity Estimates for Risk			
COMMENTS	WEBWISER				
	The PubChem Safety Sheet				
	MIOSH Chemical Safety Cards				



Searching for more than one Chemical: Batch Searching

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Chemical Name 🚯		ANDROGEN: Androgen Recept		
			man Health Assessment List (Wignall et al., 2014) 🗹	
		ARTICLE: Collaborative Estroger	n Receptor Activity Prediction Project (CERAPP) 📝	
CAS-RN ()		_		
🗌 InChiKey 🚯		ATSDR: Minimal Risk Levels (MF		
InChiKey IUPAC Name		ATSDR: Toxic Substances Portal	I Chemical List 🕝	
InChIKey () IUPAC Name () Structures		ATSDR: Toxic Substances Portal CalEPA Office of Environmental	al Chemical List 🗹 Il Health Hazard Assessment, 🗗	
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Lists

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ŧ List Acronym ♦ Last Updated ♥ Number of Chemicals 🗘 List Description List Name 40CFR355 40CFR355 Extremely Hazardous Substance List and 2018-01-05 354 Extremely Hazardous Substance List and Threshold Planning Quantities; Emergency Planning and Release Notification Requirements; Final Rule. (52 FR 13378) Threshold Planning Quantities ACSREAG LIST: ACS Reagent Chemicals 2017-04-14 405 The ACS Committee on Analytical Reagents sets purity specifications for almost 500 reagent chemicals and over 500 standard-grade reference materials. AEGLVALUES 2018-04-20 174 AEGLS: Acute Exposure Guideline Levels Acute exposure guideline levels (AEGLs) describe the human health effects from once-in-a-lifetime, or rare, exposure to airborne chemicals. ALGALTOX LIST: Algal Toxins 2018-05-04 54 A list of Algal Toxins of potential interest AMINOACIDS LIST: Amino Acids 2019-03-05 20 Amino acids are organic compounds containing amine (-NH2) and carboxyl (-COOH) functional groups, along with a side chain (R group) specific to each amino acid. **Amphibole Minerals** 4 AMPHIBOLES 2019-03-26 Amphiboles are an important group of inosilicate minerals. ANTIBIOTICS LIST: Antibiotics 2019-06-01 170 List of antibiotics and related compounds ARCHEMICALS ANDROGEN: Androgen Receptor Chemicals 2018-11-16 110 The list of chemicals used to identify references with in vitro AR binding . From Kleinstreuer et al http://pubs.acs.org/doi/abs/10.1021/acs.chemrestox.6b00347 ATHENSSUS ATHENSSUS is a compilation of suspects, predicted transformation products and surfactants screened in wastewater by WATER: Univ. Athens Surfactant and Suspect List 2017-07-14 60 University of Athens, as described in Gago-Ferrero et al 2015, DOI: 10.1021/acs.est.5b03454 ATSDRLST ATSDR: Toxic Substances Portal Chemical List 200 The Agency for Toxic Substances and Disease Registry (ATSDR) is a federal public health agency of the U.S. Department of 2017-03-11 Health and Human Services.

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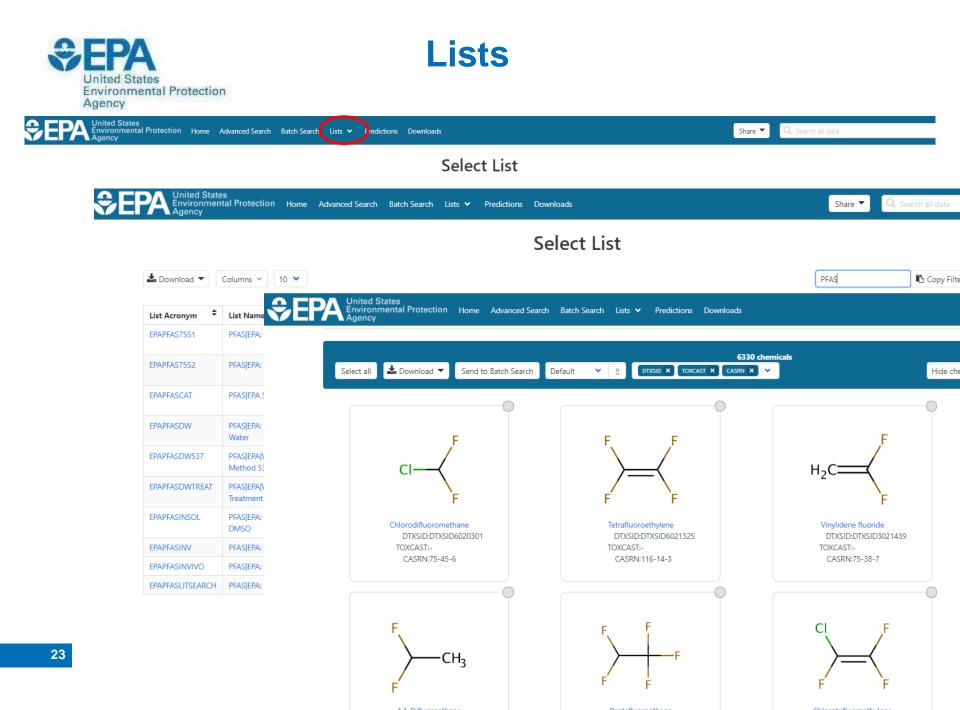
PFAS

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List Acronym 🗘	List Name 🗘	Last Updated 🗘	Number of Chemicals $\stackrel{\clubsuit}{=}$	List Description
EPAPFAS75S1	PFAS[EPA: List of 75 Test Samples (Set 1)	2018-06-29	74	PFAS list corresponds to 75 samples (Set 1) submitted for initial testing screens conducted by EPA researchers in collabor researchers at the National Toxicology Program.
EPAPFAS75S2	PFAS EPA: List of 75 Test Samples (Set 2)	2019-02-21	75	PFAS list corresponds to a second set of 75 samples (Set 2) submitted for testing screens conducted by EPA researchers collaboration with researchers at the National Toxicology Program.
EPAPFASCAT	PFAS EPA Structure-based Categories	2018-06-29	64	List of registered DSSTox "category substances" representing PFAS categories created using ChemAxon's Markush struct query representations.
EPAPFASDW	PFAS EPA: New EPA Method Drinking Water	2019-04-17	26	EPA is developing and validating a new method for detecting these PFAS in drinking water sources.
EPAPFASDW537	PFAS EPA WATER: Existing EPA DW Method 537.1	2019-05-19	19	EPA has recently revised method 537.1 for the PFAS on this list to detect them in drinking water.
EPAPFASDWTREAT	PFAS EPA WATER: Drinking Water Treatment Technology	2019-05-19	9	EPA is gathering and evaluating treatment effectiveness and cost data for removing these PFAS from drinking water syst
EPAPFASINSOL	PFAS EPA: Chemical Inventory Insoluble in DMSO	2018-06-29	43	PFAS chemicals included in EPA's expanded ToxCast chemical inventory found to be insoluble in DMSO above 5mM.
EPAPFASINV	PFAS EPA: ToxCast Chemical Inventory	2018-06-29	430	PFAS chemicals included in EPA's expanded ToxCast chemical inventory and available for testing.
EPAPFASINVIVO	PFAS[EPA: In Vivo Studies Available	2019-04-17	23	These PFAS have published animal toxicity studies available in the online HERO database.
EPAPFASLITSEARCH	PFAS EPA: Literature Search Completed:	2019-04-17	23	A literature review of published toxicity studies for these PFAS



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Impact

- Challenge: Need to identify a subset of both data rich and data poor compounds as possible candidates for prioritization under Toxic Substances Control Act (TSCA).
- Solution: CompTox Chemicals Dashboard integrates chemical data including human and ecological hazard, exposure and chemical properties that can be used to inform chemical screening and assessment.
- **Example:** TSCA's Working Approach for Identifying Potential Candidate Chemicals for Prioritization proposed tiered decision workflows for scientific domains of interest as part of a longer-term risk-based approach for managing the larger TSCA chemical landscape.

Example: TSCA's Working Approach for Identifying Potential Candidate Chemicals for Prioritization

\$EPA	United States Environmental Protection Agency	September 27, 2015 Office of Chemical Safety and Pollution Prevention
A Working Approx	ich for Identifying Potential Candidate	Chemicals for Prioritization
	September 2018	



Impact: Evaluating chemicals for health effects in California

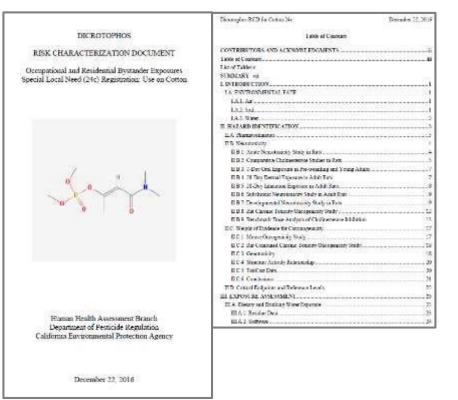
Challenge: Need to make informed decisions about the potential health effects of chemicals, and determine safer and more sustainable uses of chemicals found in products that consumers buy and use.

Solution: ORD researchers provided CalEPA staff training on the use and interpretation of chemical testing data in the CompTox Chemicals Dashboard.

CalEPA uses ToxCast data to:

- Provide insight into how chemicals cause toxicity
- Perform various state efforts using the lifecycle analytic and exposure modeling and monitoring

Example: CalEPA Pesticide Assessments



 ToxCast data used for weight of evidence decisions regarding health effects for pesticides



Potential Impact: Evaluating risk of aquatic contaminants in Minnesota

Challenge: Characterizing potential effects for a wide variety of contaminants which there exists limited information.

Solution: The Minnesota Pollution Control Agency (MPCA) used a suite of EPA tools, including those available under the CompTox Chemicals Dashboard, to prioritize chemicals based on toxicity effects and hazard characterization.

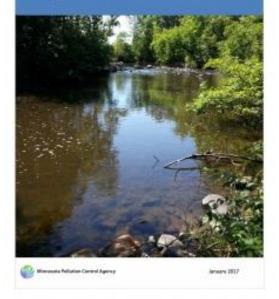
- Estimation Programs Interface (EPI) Suite
- ECOTOX
- Web-ICE

Using these tools, MPCA develops toxicity profiles to:

- Screen contaminants that have been detected in the state
- Monitor chemicals and prevent pollution
- Communicate the potential hazards associated with individual contaminants

Example: MPCA used tools available on the CompTox Chemicals Dashboard to identify triclocarban, an antibacterial agent commonly in soaps and lotions, as a high priority contaminant for monitoring in systems with effluent input.

Pharmaceuticals and Chemicals of Concern in Rivers: Occurrence and Biological Effects





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Conclusion

- EPA's CompTox Chemicals Dashboard provides access to data for ~875,000 chemicals
- Dashboard is an integration hub for multiple "modules" and tools to support multiple environmental applications
- Data releases twice a year (at present) and supported with ongoing manual curation efforts
- Updates released in both March and August 2019
 - New bioassay data in the InvitroDBv3.1 release
 - New toxicity data added ~800,000 toxicity data points
 - Focused data efforts for PFAS chemical lists and properties



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The views expressed in this presentation are those of the author and do not necessarily reflect the views or policies of the US EPA