EPA CompTox Chemistry Dashboard – an online resource for environmental chemists

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> National Center for Computational Toxicology U.S. Environmental Protection Agency, RTP, NC

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April 2017 ACS Spring Meeting, San Francisco, CA

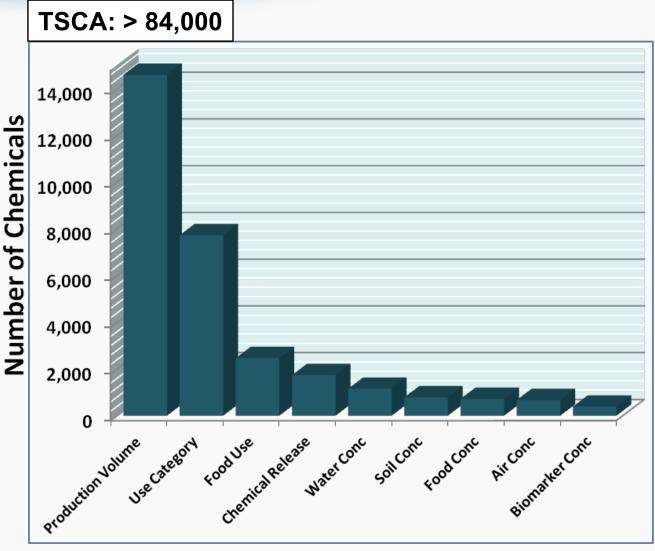
Who is NCCT?

- National Center for Computational Toxicology part of EPA's Office of Research and Development
- Research driven by EPA's Chemical Safety for Sustainability
 Research Program
 - Develop new approaches to evaluate the potential chemical toxicity
 - Integrate advances in biology, biotechnology, chemistry, exposure science and computer science
- Goal To identify environmental chemical exposures that may disrupt biological processes and cause adverse outcomes.



ntal Protection

Exposure Data Has Not Kept Pace with Regulatory Needs



Data Category

P.P. Egeghy et al. Sci Total Environ. 414 (2012) 159-166

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mental Protection

The CompTox Chemistry Dashboard: An Overview

• A publicly accessible website delivering access:

- ~750,000 chemicals and related property data
- Links to other agency websites and public data resources
- "Literature" searches for chemicals using public resources
- Integration to "biological assay data" for 1000s of chemicals
- Information regarding consumer products containing chemicals
- "Batch searching" for thousands of chemicals
- Day-to-day curation efforts for data quality

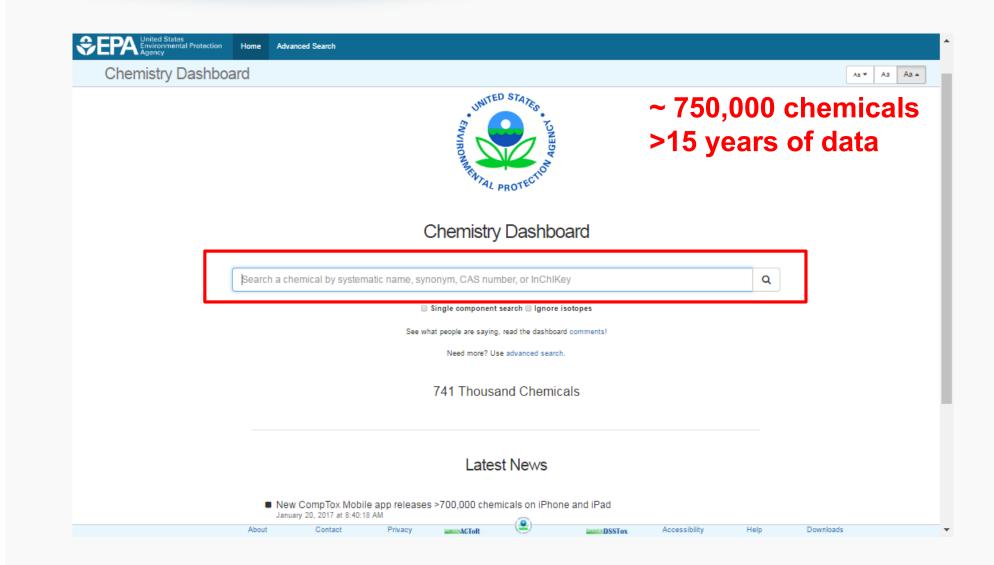
Comptox Chemistry Dashboard https://comptox.epa.gov



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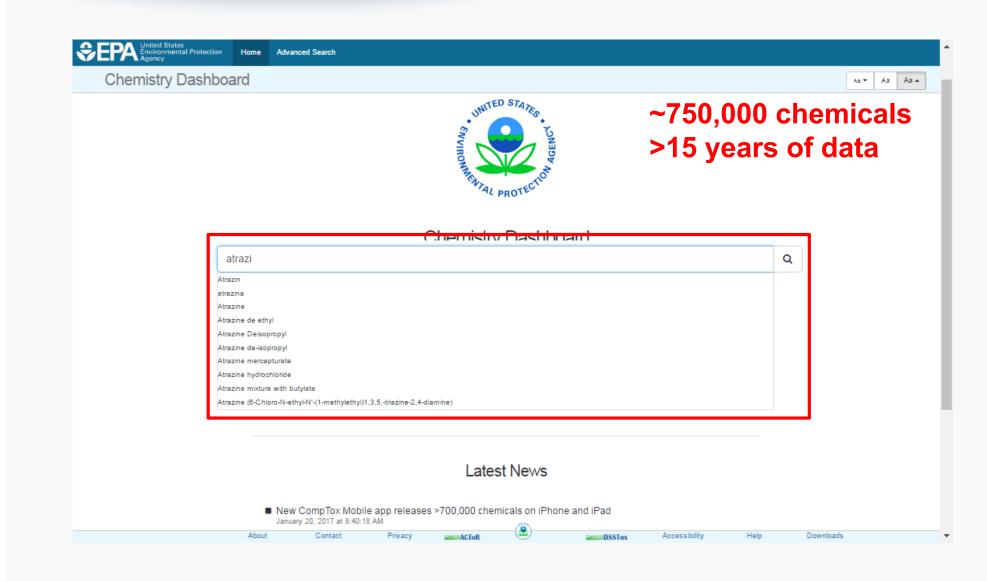
Comptox Chemistry Dashboard https://comptox.epa.gov





Comptox Chemistry Dashboard https://comptox.epa.gov





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Chemical Page

Atrazine 1912-24-9 | DTXSID9020112 0

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Searched by Approved Name: Found 1 result for 'atrazine'.

H₃C· CH₂ Chemical Properties Synonyms External Links Product Composition Bioassays Exposure Analytical Literature Comments

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ci	Intrinsic Properties	
N-	Molecular Formula: C8H14CIN5 Q Find All Chemicals	
	Average Mass: 215.69 g/mol	
N	Monoisotopic Mass: 215.093773 g/mol	
HN	Structural Identifiers	
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Physicochemical Properties



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gP: Octanol-Wa	Property	Av	erage	Ме	dian	R	ange	Unit
ater Solubility		Experimental	Predicted	Experimental	Predicted	Experimental	Predicted	
noite	LogP: Octanol	2.61 (1)	2.66 (4)	2.61 to 2.61	2.66	2.61	2.50 to 2.82	-
ensity	Water Solubility	1.30e-04 (1)	1.46e-02 (4)	1.30e-04 to 1	1.46e-02	1.30e-04	1.50e-04 to 5	mol/L
felting Point	Density	-	1.27 (1)	-	1.27	-	-	g/cm^3
Calling Daint	Melting Point	174 (6)	151 (3)	173 to 177	151	173 to 177	114 to 187	°C
Boiling Point	Boiling Point	-	312 (3)	-	312	-	284 to 339	°C
Surface Tension	Surface Tension	-	53.8 (1)	-	53.8	-	-	dyn/cm
	Vapor Pressure	7.21e-11 (1)	4.47e-06 (3)	7.21e-11 to 7	4.47e-06	7.21e-11	2.03e-07 to 1	mmHg
Vapor Pressure	Soil Adsorp. C	174 (1)	173 (2)	174 to 174	173	174	144 to 202	L/kg
Soil Adsorp. Coeff.	LogKoa: Octa	-	8.40 (1)	-	8.40	-	-	-
	Henry's Law	-	4.20e-10 (1)	-	4.20e-10	-	-	atm-m3/mole
LogKoa: Octanol-Air	Atmos. Hydrox	-	1.7 <u>1</u> e-11 (1)	-	1.71e-11	-		cm3/molecule*

Chemical Properties

Names and Identifiers



Found 100 synonyms	
Legend: Valid Synonyms Good Synonyms Other Synonyms Copy all Synonyms	
Atrazine	
1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)-	
1912-24-9 Active CA 8-RN	
UNII-QJA9M5H4IM FDA Registry Number	
1,3,5-Triazine-2,4-diamine, 6-chloro-N2-ethyl-N4-(1-methylethyl)-	
1-Chloro-3-ethylamino-5-isopropylamino-2, 4, 6-triazine	
2-Chloro-4-(ethylamino)-6-(2-propylamino)-s-triazine	
2-Chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine	
2-Chloro-4-(ethylamino)-6-(isopropylamino)triazine	
2-Chloro-4-ethylamineisopropylamine-s-triazine	
2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine	
2-Chloro-4-ethylamino-6-isopropylamino-s-triazine	
2-Ethylamino-4-isopropylamino-6-chloro-s-triazine	
6-Chloro-4-(ethylamino)-2-(isopropylamino)-s-triazine	
6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine	

Active vs Deleted CASRN



Legend: Valid Synonyms Good Synonyms Other Synonyms Copy all Synonyms 7,7-Dimethyl-3-[(4-methylphenyl)methylidene]bicyclo[2.2.1]heptan-2-one, 5 Bicyclo[2.2.1]heptan-2-one, 7,7-trimethyl-3-[(4-methylphenyl)methylene]- 36861-47-9 Active CAS-RN UNII-8I3XWY40L9 FDA Registry Number EINECS 253-242-6 Eusolex 6300 Uvinul MBC 95 Parsol 5000 Neo Heliopan MBC 3 3-(p-Methylbenzylidene)camphor 3 3-(4-Methylbenzylidene)-DL-camphor 3 3-(4-Methylbenzylidene)camphor 3 3-(p-Methylbenzylidene)camphor 3 3-(4-Methylbenzylidene)camphor 1 3-(4-Methylbenzylidene)camphor 1 3-(4-Methylbenzylidene)camphor 1 3-(p-Methylbenzylidene)camphor 1 3-(4-Methylbenzylidene)camphor 1 3-(4-Methylbenzylidene)camphor 1 3-(4-Methylbenzylidene)camphor 1 3-(p-Methylbenzylidene)camphor 1 3-(p-Methylbenzylidene)camphor 1 3-(p-Methylbenzylidene)camphor 1 3-(p-Methylbenzylidene)camphor 1			Found 23 s	synonyms	
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Collisions in CAS Numbers



Enzacamene

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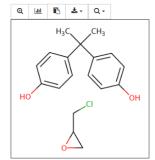


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Bisphenol A/ Epichlorohydrin resin

25068-38-6 | DTXSID0050479 6

Searched by CAS-RN: Found 1 result for '25068-38-6'.



Intrinsic Properties
Molecular Formula: C18H21CIO3
Average Mass: 320.81 g/mol
Monoisotopic Mass: 320.117922 g/mol
Structural Identifiers
Record Information

1192045-32-1 Deleted CAS-RN

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How Bad Can It Get? This one is **316** Deleted CASRN



CAS Registry Number: 25068-38-6 $(C_{15} H_{16} O_2 . C_3 H_5 CI O)_x$ Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane

Polymer

Polymer Class Terms: Epoxy resin

Alternate CAS Registry Numbers: 26402-79-9

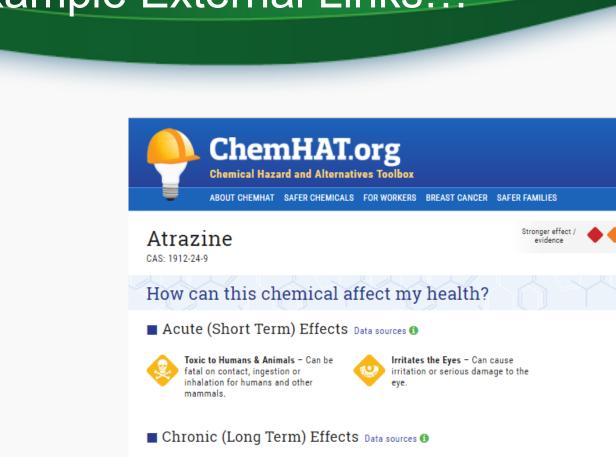
Deleted CAS Registry Numbers: 1336-88-5, 1337-15-1, 8000-31-5, 9015-99-0, 9049-54-1, 9050-21-9, 9081-91-8, 9083-76-5, 9084-94-0, 9086-62-8, 9087-26-7. 9087-76-7. 11097-80-6. 11098-13-8, 11098-40-1, 11100-23-5, 11108-41-1, 11120-31-3, 11121-19-0, 11126-36-6, 20232-24-0, 35038-60-9. 36344-96-4. 36347-13-4. 36347-14-5. 37184-50-2. 37184-52-4. 37208-29-0. 37217-92-8. 37230-74-3. 37243-66-6. 37243-67-7. 37251-33-5. 37265-21 7, 37270-82-9, 37291-75-1, 37293-07-5, 37294-18-1, 37305-82-1, 37307-45-2, 37317-45-6, 37325-21-6, 37338-63-9, 37342-17-9, 37345-34-9, 37348-56-4. 37348-57-5. 37357-73-6. 37360-93-3. 39277-59-3. 39288-99-8. 39296-08-7. 39296-09-8. 39296-11-2. 39296-15-6. 39315-77-0. 39349-91-2. 39354-86-4, 39362-25-9, 39362-45-3, 39373-81-4, 39378-29-5, 39378-55-7, 39389-49-6, 39405-18-0, 39412-57-2, 39419-66-4, 39453-22-0, 39454-54-1, 39454-69-8, 39470-62-7, 42612-34-0, 42618-03-1, 50642-36-9, 50642-55-2, 50642-78-9, 51158-20-4, 51273-81-5, 51329-73-8, 51393-99-8, 51394-03-7. 51553-00-5. 52011-87-7. 52038-45-6. 52051-70-4. 52051-82-8. 52052-16-1. 52232-05-0. 52232-75-4. 52276-55-8. 52365-33-0. 52519-66-1. 52519-67-2. 52627-94-8. 52907-38-7. 53027-88-6. 53127-14-3. 53200-30-9. 53238-86-1. 53238-87-2. 53239-67-1. 53239-68-2. 53570-97-1. 53570-98-2, 53681-78-0, 53858-93-8, 54018-73-4, 54352-05-5, 55464-96-5, 55584-55-9, 55585-07-4, 55818-73-0, 56258-35-6, 56449-43-5, 56509-48-9, 57107-66-1. 57284-90-9. 57534-21-1. 57693-04-6. 58052-05-4. 58128-38-4. 58392-89-5. 58392-92-0. 58516-14-6. 58572-71-7. 59029-19-5. 59459-14-2. 59473-30-2. 59948-36-6. 60202-19-9. 60267-31-4. 60382-89-0. 60606-56-6. 60800-54-6. 60831-77-8. 60894-16-8. 61036-82-6. 61287-42-1. 61356-27-2. 61711-38-4. 61763-30-2. 61991-18-2. 62169-28-2. 62169-29-3. 62601-75-6. 62601-76-7. 62887-23-4. 63055-40-3. 63172-55-4. 63799-24-6. 63993-57-7, 63993-58-8, 64086-14-2, 64086-16-4, 64176-52-9, 64176-61-0, 64176-66-5, 64177-03-3, 65233-49-0, 65931-38-6, 65931-39-7, 66995-96-8, 67185-62-0. 68821-97-6. 69899-40-7. 70179-83-8. 70213-44-4. 70726-45-3. 71965-91-8. 72514-40-0. 73413-19-1. 74504-20-4. 74564-76-4. 75831-44-6, 78564-77-9, 79585-43-6, 80702-61-0, 81458-12-0, 81843-57-4, 81843-58-5, 81855-87-0, 82197-12-4, 82197-46-4, 83202-85-1, 84286-97-5, 84683-04-5, 84931-29-3, 85537-69-5, 86090-60-0, 88385-37-9, 88528-19-2, 88651-18-7, 89750-00-5, 91727-28-5, 91727-29-6, 92481-37-3, 95327-25-6, 96420-31-4. 96510-68-8. 97568-16-6. 97709-01-8. 99400-50-7. 101027-12-7. 102256-87-1. 103599-13-9. 103599-14-0. 104364-97-8. 104491-99-8. 105521-57-1, 106207-08-3, 106856-89-7, 107991-47-9, 108556-05-4, 108728-21-8, 110158-22-0, 111367-08-9, 111517-59-0, 114013-37-5, 115902-32-4. 117216-90-7. 117313-45-8. 117786-92-2. 118340-04-8. 120146-74-9. 120797-43-5. 121181-85-9. 121273-37-8. 121547-73-7. 123939-44-6. 125147-87-7, 127176-80-1, 127176-81-2, 128281-71-0, 132822-20-9, 132893-73-3, 135976-90-8, 137545-29-0, 138157-20-7, 138361-18-9, 139554-29-3. 142540-11-2. 144046-24-2. 144046-25-3. 144855-66-3. 149013-58-1. 150825-32-4. 157321-42-1. 157481-46-4. 158725-45-2. 160674-45-3. 161937-12-8. 162031-55-2. 167972-06-7. 168042-08-8. 179607-24-0. 183581-68-2. 183890-12-2. 187619-11-0. 188448-56-8. 189282-49-3. 191606-83-4. 220090-06-2. 222835-65-6. 222835-66-7. 222835-68-9. 222835-69-0. 222835-70-3. 222835-72-5. 222835-74-7. 222835-77-0. 309945-96-8. 339530-81-3. 353239-57-3. 367523-08-8. 383889-26-7. 383889-27-8. 395069-05-3. 470462-49-8. 681001-41-2. 848887-61-6. 913745-83-2. 917483-69-3. 922728-11-8. 934588-09-7. 945610-97-9. 950907-45-6. 1033821-54-3. 1034342-45-4. 1068160-75-7. 1082736-74-0. 1096473-97-0. 1114797-08-8, 1189565-70-5, 1190235-62-1, 1190729-68-0, 1192045-32-1, 1195324-26-5, 1196030-95-1, 1198291-96-1, 1199811-18-1, 1203835-26-0, 1206700-05-1, 1228639-00-6, 1245563-83-0, 1271727-39-9, 1300093-58-6, 1300102-07-1, 1305321-17-8, 1338071-08-1, 1446691-72-0, 1450839-98-. 1620807-39-7. 1641551-32-7. 1807886-28-7. 1815624-46-4. 1815624-47-5

Links to Other Resources



General	Toxicology	Publications	Analytical
EPA Substance Re	ACToR	Toxline	Q National Environme.
NIST Chemistry W	• DrugPortal	Environmental Heal	♂ MONA: MassBank .
🛠 Household Product	CCRIS	NIEHS	🗛 Tox21 Analytical Dat
🙄 PubChem	Ghem∨iew	National Toxicology	🖿 RSC Analytical Abs.
💢 Chemspider	🕲 СТД	G Google Books	FOR-IDENT
⊛ CPCat ∮ DrugBank Monp HMDB	🛞 E Records Administration	eral Register (OFR) of the Nationa on (NARA), and the U.S. Governn ter the FederalRegister.gov websi	nent Printing Office
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 DrugBank HMDB Wikipedia MSDS Lookup 	 E Records Administration (GPO) jointly administration (GPO) j	on (NARA), and the U.S. Governmenter the FederalRegister.gov website Q. Federal Register Q. Regulations.gov	nent Printing Office





appear as the child grows.

Sensitizes the Skin - Can lead to

Breast Cancer - Known to increase mammary gland tumors in animals.

allergic reactions on the skin.

Example External Links...







Other Health Effects - Can cause serious damage on contact or ingestion.

Endocrine Disruption - Can interfere with hormone communication between cells which controls metabolism. development, growth, reproduction and behavior (the endocrine system).

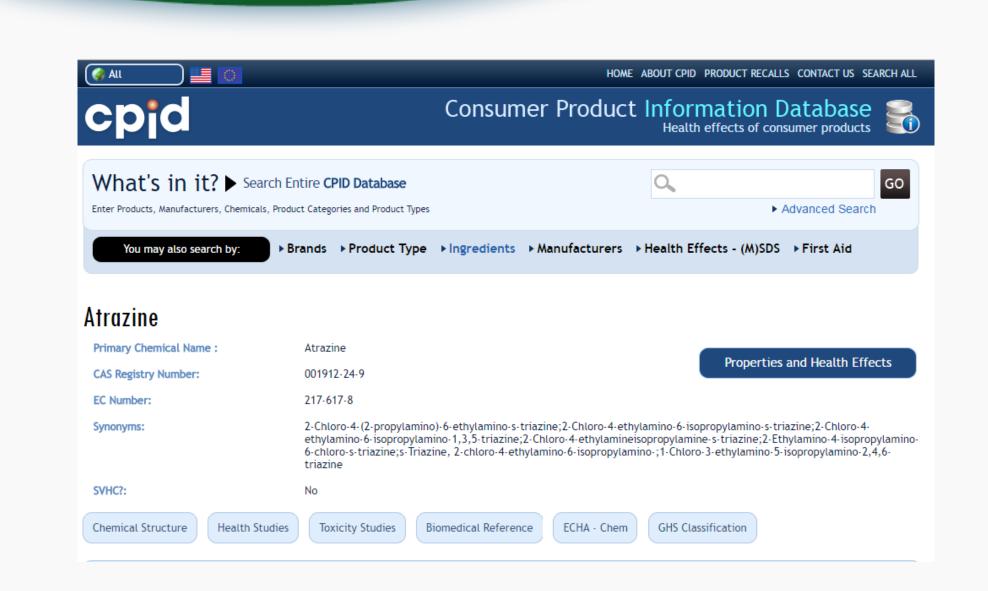
English | Español

Weaker effect /

evidence



Cancer - Can cause or increase the risk of cancer.



Ironmental Protection

Product Composition Details



ownload as: TSV Excel							
Product Composition							
Product	Percent Composition ↓	Manufacturer					
PS-380 ATRAZINE, 99.5% PURE	99.5%	CHEM SERVICE INC					
ATRAZINE 80W	76.0%	ACETO AGRICULTURAL CHEMICALS CORP					
ATRATOL 80W	71.3%	CIBA-GEIGY CORPORATION					
ATRATOL 8P	8%	CIBA-GEIGY CORP					
LPC-507M LAB PERFORMANCE CHECK MIXTURE IN T-B	<1%	CHEM SERVICE INC					
F2208S 2-CHLORO-4-ETHYLAMINO-S-TRIAZINE 100 UG	<1%	CHEM SERVICE INC					
ST84798, PROTURF ST AUGUSTINE WEED CONTROL	0.99%	O M SCOTT & SONS CO					
SCOTTS BONUS, 26-3-3	0.94%	0. M. SCOTT & SONS CO.					
SCOTTS LAWN PRO SUPER BONUS S, 21-3-3	.57%	0. M. SCOTT & SONS CO.					
10-3-3 FERTILIZER + ATRAZINE	0.42%	ESTECH BRANDED FERTILIZERS, INC					

In vitro Bioassay Data

- In vitro bioassays are used to determine the biological activity of a substance – ToxCast and Tox21 projects
- A decade of measurements, and millions of dollars of data integrated into the dashboard



Chemical Properties

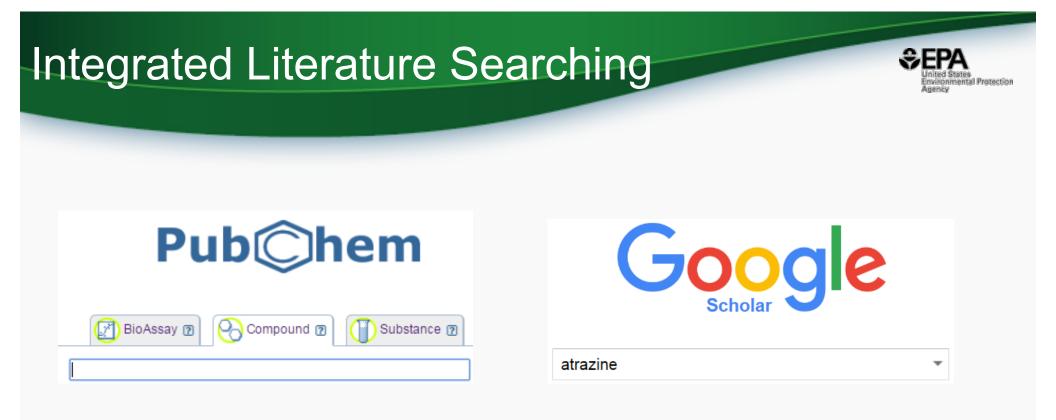
Synonyms External Links

Product Composition

n Bioassays

Exposure

onmental Protection



PubMed

PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.



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1 to 10 of 8	1 to 10 of 876 1 2 3 88						
PMID	Date	Title	Journal				
26923738	2016-06-01	Atrazine blocks ovulation via suppression of Lhr and Cyp19a1 mRNA and estradiol secretion in immature gonadotropin-treated rats.	Reproductive toxicology (Elmsford, N.Y.)				
27114639	2016-03-01	Atrazine exposure causes mitochondrial toxicity in liver and muscle cell lines.	Indian journal of pharmacology				
26647222	2016-01-05	Endocrine-Disrupting Effects of Pesticides through Interference with Human Glucocorticoid Receptor.	Environmental science & technology				
26464060	2016-01-01	Effects of Neonicotinoids on Promoter-Specific Expression and Activity of Aromatase (CYP19) in Human Adrenocortical Carcinoma (H295R) and Primary Umbilical Vein Endothelial (HUVEC) Cells.	Toxicological sciences : an official journal of the Society of Toxicology				
26377646	2015-09-16	Atrazine-Mediated Disruption of Steroidogenesis in BLTK1 Murine Leydig Cells.	Toxicological sciences : an official journal of the Society of Toxicology				

Chemical Properties



Google Scholar	Select Term:	Hazard	* AND	RfD OR reference dose	AND -
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PubChem Articles	"RfD OR refere	nce dose" AND "Hazar	d" AND "1912-24-9" OR "Atrazin	e RfD OR reference dose	
PubChem Patents					
IRIS		Google	"RfD OR reference dose'	AND "Hazard" AND "1912-24-9"	OR "Atrazine" 👻 🔍
	Submit	Scholar	About 579 results (0.06 sec)		
		Articles Case law	national approaches	n food and water safety: internatives of environmental contamination and	
		My library	Acute hazard unlikely Atrazir Chlomethoxyfen Chloridazon Ch permission from the US EPA	e Benomyl Butachlor Butylate Carbenda lorothalonil Diuron EPA reference do: a Classified by WHO as unlikely to produc	azim Carboxin se data reprinted with ce acute hazard in nor
		Any time Since 2017 Since 2016 Since 2013 Custom range	Immunotoxic effects of sl mice NM Filipov, LM Pinchuk, BL Boy Moreover, documented expos Reference Dose (RfD) have bee	II 6 versions Web of Science: 18 Cite nort-term atrazine exposure in y d Toxicological, 2005 - Soc Toxicol ures of over 200,000 people to atrazine en reported Atrazine disrupts the hypo d report on the hazard identification asse	young male C57BL/6 logy levels above the acute othalamic control of
		Sort by relevance Sort by date	Cited by 71 Related articles A	II 14 versions Web of Science: 47 Cite tals to the general public in Tiar	e Save More
		 ✓ include patents ✓ include citations 	X Wang, T Sato, <u>B Xing</u> , S Tao exposures. These are typically is a ratio of determined dose of a	Science of the Total Environment, 2005 / based on the target hazard quotient (TI a pollutant to the dose level (a Reference lere will not be any obvious risk	HQ), which
		🗹 Create alert	Non-occupational exposi	All 7 versions Web of Science: 269 Cit ures to pesticides for residents (DE Camann Archives of, 1994 - Sp	of two US cities

Chemical Properties



Google Scholar	Select Term:	Edit the Query Before Retrieving Articles
Abstract Sifter	Select a Query Term	"1912-24-9" OR "Atrazine" OR "Atrazine"
PubChem Articles	Retrieve Articles 0 Articles	
PubChem Patents	Add additional query terms to filter abstracts:	
IRIS		Search and Count
	Select Term:	

Select a Query Term	*
Select a Query Term	
Hazard	
Fate and Transport	
Metabolism/PK/PD	
Chemical Properties	
Exposure	
Mixtures	
Male Reproduction	
Androgen Disruption	
Female Reproduction	
GeneTox	
Embryo and embryonic development	
Child (infant through adolescent)	
Dust and Exposure	



	Select Term	1:				Edit the Query Before Retrieving Articles	
	Hazard					("1912-24-9" OR "Atrazine" OR "Atrazine") AND (NOAEL or NOEL OR LOEL or Rfd OR "reference dose" OR "reference concentration" OR "adverse effect level"	٦
	Retrieve	Articles	28 Artic	les (out of 28)		[tiab] OR "cancer slope factor"[tiab])	1
	Add additio	onal query	terms to) filter abstra	cts:		
	estrogen				endocr	crine Search and Count	
6	est end	Ter	Total	PMID	Pub.	Title	
	8 1	0	4	10613397	1999	Estrous cycle patterns of Sprague-Dawley rats during acute and chronic atrazine administration.	
1	2 1	0	3	15655806	2005	A risk assessment of atrazine use in California: human health and ecological aspects.	I
	1	0	2	15590006	2004	Impact of endocrine toxicants on survival, development, and reproduction of the estuarine copepod Eurytemora affinis	
0) 1	0	1	8829248	1996	Effect of atrazine on ovarian function in the rat.	
(0 Record:		0 1 of 28	28089211	2017	Toxicity effects of an environmental realistic herbicide mixture on the seagrass Zostera noltei.	•

Title: Effect of atrazine on ovarian function in the rat.

Abstract: The effect of the chlorotriazine herbicide, atrazine, on ovarian function was studied in Long-Evans hooded (LE-hooded) and Sprague-Dawley (SD) rats. Atrazine was administered by gavage for 21 d to females displaying regular 4-d estrous cycles. In both strains, 75 mg/kg/d disrupted the 4-d ovarian cycle; however, no distinct alteration (i.e., irregular cycles but not persistent estrus or diestrus) was apparent at this dose. At 150 mg/kg/d, atrazine induced repetitive pseudopregnancies in females of both strains. The highest dose tested (300 mg/kg/d) also induced repetitive pseudopregnancies in the SD females, while the ovaries of the LE-hooded female appeared regressed and the smear cyclology was indicative of the anestrous condition. Although a NOAEL was not established, the doses employed in this experiment were in excess of those used in chronic feeding studies in which an early onset of mammary gland tumors was noted. These data demonstrate that atrazine can disrupt ovarian function and bring about major changes in the endocrine profile of the female.



Select Term:



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("1912-24-9" OR "Atrazine" OR "Atrazine") AND (NOAEL or NOEL OR LOEL or Rfd OR "reference dose" OR "reference concentration" OR "adverse effect level"[tiab] OR "cancer slope factor"[tiab])

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3	1	0	4	10613397	1999	Estrous cycle patterns of Sprague-Dawley rats during acute and chronic atrazine administration.	*
2	1	0	3	15655806	2005	A risk assessment of atrazine use in California: human health and ecological aspects.	
1	1	0	2	15590006	2004	Impact of endocrine toxicants on survival, development, and reproduction of the estuarine copepod Eurytemora affinis	
0	1	0	1	8829248	1996	Effect of atrazine on ovarian function in the rat.	
0 Reco	0 rd: M		0 I of 28	28089211	2017	Toxicity effects of an environmental realistic herbicide mixture on the seagrass Zostera noltei.	•

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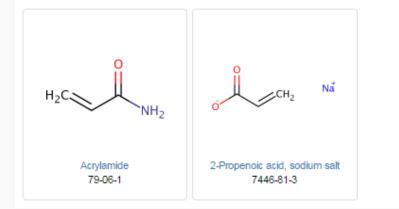
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Poly (acrylamide-co-acrylic acid), partial sodium salt 62649-23-4 | DTXSID1049722 o

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Record Information	
Citation	
U.S. Environmental Protection Agency. Chemistry Dashboard. h partial sodium salt	https://comptox.epa.gov/dashboard/DTXSID1049722 (accessed February 12, 2017), Poly (acrylamide-co-acrylic acid),
Data Quality 80%	
	-
Manually curated and no conflicts in multiple public sources	
	Related Chemicals



Batch Searching for Data for Thousands of Chemicals



28

• What are these chemicals?

Chemicals Used in the Hydraulic Fracturing Process in Pennsylvania Prepared by the Department of Environmental Protection Bureau of Oil and Gas Management

Updated June 10, 2010

Chemical	Product Name
2,2-Dibromo-3-Nitrilopropionamide	Bio Clear 1000/Bio Clear 2000/ Bio-Clear 200/BioRid20L/ EC6116A
2-methyl-4-isothiazolin-3-one	X-Cide 207
5-chloro-2-methyl-4-isothiazolin-3- one	X-Cide 207
Acetic Acid	Fe-1A Acidizing Composition/ Packer Inhibitor
Acetic Anhydride	Fe-1A Acidizing Composition
Acetylene	GT&S Inc./ Airco
Alcohol Ethoxylated	C12-16 NE-200
Alkyl benzene sulfonic acid	Tetrolite AW0007/ FR-46
Ammonia (aqueous)	FAW-5
Ammonium Bifluoride	ABF 37%
Ammonium Persulfate	AP Break
Ammonium Bisulfite	Techni-Hib 604/ Fe OXCLEAR/ Packer Inhibitor
Ammonium chloride	Salt Inhibitor
Ammonium Salt (alkvlpolvether	T / 11 1110007

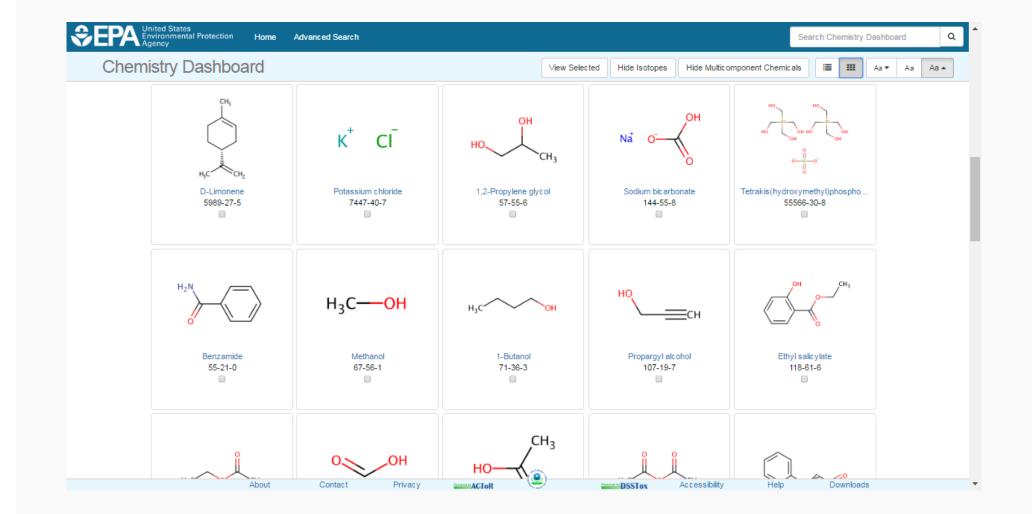
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Select Input Type(s)		Enter Identifiers to Search
 Chemical Name CAS-RN InChIKey DSSTox Substance ID Exact Molecular Formula (1) 		Sodium I-glutamate 4-Hydroxy-3-nitrophenylarsonic acid 4-Nitro-1,2-phenylenediamine Methoxypromazine 1-Phenyl-3-methyl-5-pyrazolone 1-Phenyl-2-thiourea Phenylbutazone 1,4-Benzenediamine Prednisolone Probenecid
Display All Chemicals Download Ch	emical Data	
Select Output Format		
Customize Results		
Select All		
Chemical Identifiers	Structures	Intrinsic Properties
 Chemical Name DTXSID CAS-RN InChIKey IUPAC Name 	Mol FileSMILESInChl String	 Molecular Formula Average Mass Monoisotopic Mass OPERA and TEST Model Predictions

Access to associated data for review, modeling & download





Access to associated data for review, modeling & download



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Download as:	SV - Excel -	SDF -										
ID †↓ S	tructure	Preferred Name $\uparrow \downarrow$	CAS-RN †↓	QC Level †↓	CPCat C.	Number.	PubChe	Monoisotopic M				
DTXSID0020078	cf NH ₄	Ammonium chloride	12125-02-9	DSSTox High	561	28	82	53.003227				
DTXSID6020143												
ToxCast™		Benzoic acid	65-85-0	DSSTox High	87	70	441	122.036779				
DTXSID1020194	ОН	Boric acid										
ToxCast™	× ×	Boric acid	10043-35-3	DSSTox High	792	51	142	62.017524				
	OH											
DTXSID5020235	Ca ²⁺	Colsium ablasida	10043-52-4	DCCTau U/-t	204	22	94	400.000000				
ToxCast™	cí cĩ	Calcium chloride	10043-52-4	DSSTox High	294	33	81	109.900296				

Real World Applications



From chemical names to chemical data



Anthracene		120-12-7
Aromatic oil		
9,10-Anthracenedione, 2-ethyl	2-Ethylanthracene-9,10-dione	84-51-5
Azobenzene		103-33-3
Benz(e)acenaphthylene	Acephenanthrylene	201-06-9
Benzaldehyde, 3-hydroxyl-4-methoxy	3-Hydroxy-4-methoxy-benzaldehyde	621-59-0
Benz(a)anthracene		56-55-3
Benzene		71-43-2
Benzene, 1,3-bis(1-methylethenyl)-	1,3-bis(1-methylethenyl)benzene; 1,3-	3748-13-8
benzene, 1,5-bis(1-methylethellyl)-	Diisopropenylbenzene	5740-15-0
Benzene, 1,4-bis(1-methylethenyl)-	1,4-Bis(1-methylethenyl)benzene	1605-18-1
1,4-Benzenediamine, N,N'-diphenyl-	N,N'-Diphenyl-p-phenylenediamine	74-31-7

Download as: TSV + Excel + SDF +					
ID † 1 Monoisotopic Mass † 1	Preferred Name †1	CAS-RN †↓	QC Level †1	Number of Sources †1	PubChem Data Source Count $\uparrow \downarrow$
Acobeceree 102323	() N/-Dphe	ny - phenylemediamine 74-31-7	H ₁ , Collectoropergambersame 1.3. Classon opergambersame 3746 13-8		¹ 1,4.Big(1-esth-biller) 100-18-1
105353		(4-3)-/	3/46-13-8	10/6-45-3	1605-16-1
	Q	l l l l l l l l l l l l l l l l l l l	HAC	xatox	
Benzene 71-43-2	2-Ethyla	thracene-9,10-dione 84-51-5	3-Hydroxy-4-methoxy-benzaldehyde 621-59-0	2,6-Anthracenedisulfonic acid, 9,10-dihydro-9,10-dioxo- 84-50-4	Acephenarthrykne 201-06-9

Data Available for Download https://comptox.epa.gov/dashboard/downloads

DSSTox Identifier to PubChem Identifier Mapping File

SID

316388891

316388890

316388889

316388888

316388887

316388886

316388885

316388884

The DSSTox to PubChem Identifiers mapping file is in TXT format and includes the PubChem SID, PubChem CID and DSSTox substance identifier (DTXSID).

DTXSID

Downloads

DTXSID30873143

DTXSID70873142

DTXSID40873139

DTXSID20873137

DTXSID00873135

DTXSID80873133

DTXSID60873131

DTXSID00873130

DSSTox identifiers	mapped to	CAS	Numbers	and Names	s File

The DSSTox Identifiers file is in Excel format and includes the CAS Number, DSSTox substance identifier (DTXSID) and the Preferred Name.

1	A	В	
1	casrn	dsstox_substance_id	preferred_name
2	26148-68-5	DTXSID7020001	A-alpha-C
3	107-29-9	DTXSID2020004	Acetaldehyde oxime
4	60-35-5	DTXSID7020005	Acetamide
5	103-90-2	DTXSID2020006	Acetaminophen
6	968-81-0	DTXSID7020007	Acetohexamide
-		·	

CID

20404

10142816

50742127

19073841

11505215

25021861

2784427

6731

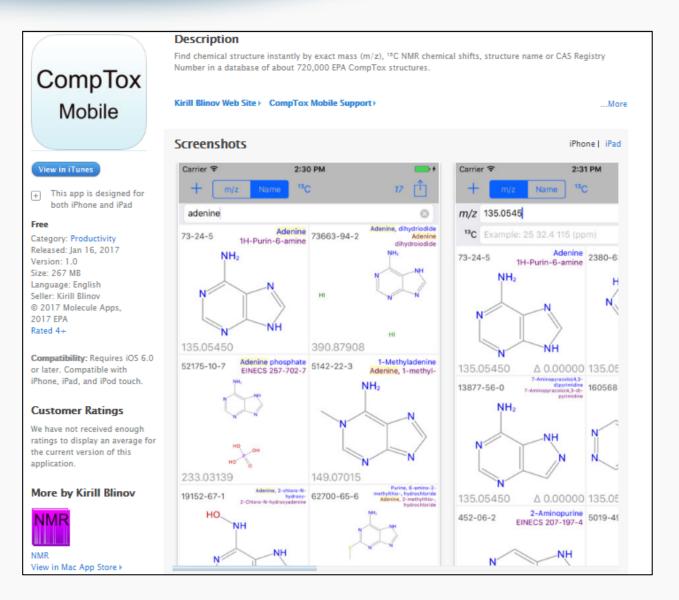
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onmental Protection

~720,000 structures on iOS







- Continue expansion and curation of data and types.
- Provide "programmatic access" to all data connect to other Agency resources and allow other scientists to integrate their scientific applications.
- Continue to assemble and enhance chemical lists and data for specific projects. Make available to Agency researchers and for public use.
- Integration of Global Health and Safety Data



- The CompTox Chemistry Dashboard provides access to data for ~750,000 chemicals
- An **Integration Hub** to data toxicity, environmental, property, bioassay, and expanding
- Data downloads allows for reuse in other systems and integration of resources to support research



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