

Table 3: Carcinogenic pollutants and endocrine disrupting chemicals released by IPPC+E-PRTR facilities, amounts in Tn and number of industrial facilities reporting these releases (Spain 2009), and relative risk of dying from ovarian cancer in towns at ≤ 5 km from industries releasing these substances, estimated using BYM models.

Pollutant	CAS No. ^a	IARC Group ^b	EDCs Group ^c	Air		Water		BYM model (5 km)		
				Tn	Facilities	Tn	Facilities	Obs ^d	RR ^e	95% CrI ^f
1,1,2,2-tetrachloroethane	79-34-5	2B		0.05	1	0	0	0	-	-
1,2,3,4,5,6-hexachlorocyclohexane	608-73-1	2B	POPs	0.0001	2	0.001	11	515	1.09	0.98-1.21
1,2-dichloroethane	107-06-2	2B		10	30	0.4	23	1101	1.04	0.96-1.13
Alachlor	15972-60-8		Pesticides	0	0	0.00003	4	326	1.02	0.89-1.17
Anthracene	120-12-7		PACs	0.4	40	0.001	13	1305	1.05	0.97-1.13
Arsenic and compounds	7440-38-2	1	Metals	4	552	1	146	7197	1.07	1.02-1.12
Atrazine	1912-24-9		Pesticides	0	0	0.004	12	1489	0.99	0.91-1.07
Benzene	71-43-2	1	Other solvents	266	415	0.1	25	3978	1.05	0.99-1.10
Benzo(a)pyrene	50-32-8	1	PACs	0	0	0.001	7	183	1.11	0.96-1.30
Brominated diphenylethers			POPs	0	0	0.001	8	343	1.04	0.91-1.18
Cadmium and compounds	7440-43-9	1	Metals	2	576	0.6	149	6727	1.07	1.02-1.13
Chlordane	57-74-9	2B	Pesticides	0	0	0.0001	7	340	1.03	0.90-1.17
Chlorpyrifos	2921-88-2		Pesticides	0	0	0.0005	8	345	1.03	0.90-1.18
Chromium and compounds	7440-47-3	1		10	619	6	295	8434	1.08	1.03-1.13
Cobalt and compounds	7440-48-4	2B		0.6	124	0	0	1504	1.04	0.97-1.11
DDT	50-29-3	2B	Pesticides	0	0	0.00001	4	327	1.04	0.91-1.19
Di-(2-ethyl hexyl) phthalate	117-81-7	2B	Plasticizers	1	23	0.01	14	901	0.96	0.87-1.04
Dichloromethane	75-09-2	2B		315	25	0.04	16	1207	1.09	1.01-1.18
Dieldrin	60-57-1		Pesticides	0	0	0.0004	9	362	1.01	0.89-1.15
Endosulfan	115-29-7		Pesticides	0	0	0.0005	8	345	1.03	0.90-1.18
Endrin	72-20-8		Pesticides	0	0	0.0005	9	349	1.04	0.91-1.18
Ethyl benzene	100-41-4	2B		0	0	8	29	741	1.09	1.00-1.20
Ethylene oxide	75-21-8	1		18	5	0	0	1495	1.01	0.92-1.11
Heptachlor	76-44-8	2B	Pesticides	0	0	0.0004	8	352	1.00	0.88-1.14
Hexachlorobenzene	118-74-1	2B	POPs	0.004	3	0.001	12	441	1.04	0.93-1.17
Hexachlorobutadiene	87-68-3		Other persistent	0	0	0.001	10	366	1.03	0.91-1.17
Lead and compounds	7439-92-1	2A	Metals	35	569	2	220	7794	1.07	1.02-1.12
Lindane	58-89-9		Pesticides	0.0001	2	0.001	5	470	1.03	0.91-1.17
Manganese and compounds	7439-96-5		Metals	2	134	0	0	1834	1.05	0.99-1.12
Mercury and compounds	7439-97-6		Metals	2	616	0.2	124	6754	1.09	1.03-1.14
Mirex	2385-85-5	2B	Pesticides	0	0	0.00001	3	327	1.04	0.91-1.19
Naphthalene	91-20-3	2B		3	50	0.1	26	1845	1.03	0.96-1.10
Nickel and compounds	7440-02-0	1		53	617	10	315	8737	1.08	1.03-1.13
Nonylphenol and nonylphenol ethoxylates	25154-52-3		Non-HPCs	0	0	0.5	22	927	1.05	0.97-1.15
Octylphenols and octylphenol ethoxylates	1806-26-4		Non-HPCs	0	0	2	20	1660	1.00	0.92-1.08
Organotin compounds			Metals	0	0	0.3	27	1204	1.04	0.96-1.13
Particulate matter (PM ₁₀)		1		13449	987	0	0	8159	1.07	1.02-1.12
PCDD+PCDF (dioxins+furans)		1	POPs	0.0001	311	0.000002	17	4254	1.05	1.00-1.11
Pentachlorobenzene	608-93-5		POPs	0.00002	1	0.0005	8	350	1.04	0.91-1.19
Pentachlorophenol	87-86-5	2B	Pesticides	0.01	1	0.03	5	502	1.03	0.92-1.17
Polychlorinated biphenyls	1336-36-3	1	POPs	0.01	37	0.0001	8	1086	0.98	0.90-1.06
Polycyclic aromatic hydrocarbons		1	PACs	18	360	0.7	74	5484	1.05	1.00-1.11
Simazine	122-34-9		Pesticides	0	0	0.004	14	1402	0.98	0.90-1.06
Tetrachloroethylene	127-18-4	2A		6	12	0.05	16	1412	1.08	1.00-1.17
Tetrachloromethane	56-23-5	2B		0.1	31	0.04	3	538	1.06	0.96-1.18
Tributyltin and compounds			Pesticides	0	0	0.001	5	348	1.03	0.90-1.17
Trichloroethylene	79-01-6	1	Other solvents	1	24	4	16	1107	1.04	0.96-1.13
Trichloromethane	67-66-3	2B		92	13	0.1	32	1088	1.06	0.98-1.14
Triphenyltin and compounds			Pesticides	0	0	0.00002	3	317	1.03	0.90-1.18
Vinyl chloride	75-01-4	1		46	8	0.9	13	456	1.02	0.91-1.14

^aChemical Abstracts Service registry number. When the pollutant is a group of substances, the CAS is not specified.

^bIARC carcinogenic classification.

^cWHO and UNEP classification.

^dObserved deaths.

^eRRs adjusted for population size, percentage of illiteracy, farmers and unemployed persons, average persons per household, and mean income

^f95% credible interval.