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## AGENTS CLASSIFIED BY THE *IARC MONOGRAPHS*, VOLUMES 1–113

Group 1	<i>Carcinogenic to humans</i>	117 agents
Group 2A	<i>Probably carcinogenic to humans</i>	74
Group 2B	<i>Possibly carcinogenic to humans</i>	287
Group 3	<i>Not classifiable as to its carcinogenicity to humans</i>	503
Group 4	<i>Probably not carcinogenic to humans</i>	1

For definitions of these groups, please see the [Preamble](#).

It is strongly recommended to consult the complete *Monographs* on these agents, the publication date, and the list of studies considered. Significant new information might support a different classification.

For agents that have not been classified, no determination of non-carcinogenicity or overall safety should be inferred.

- [List of classifications, Volumes 1-113 \(embedded spreadsheet\)](#)
- [List of classifications by cancer site \(PDF file\)](#)

See [Preventable Exposures Associated With Human Cancers](#) (Cogliano *et al.*, 2011)

Although care was taken in preparing these lists, mistakes may be present.

If you find an error, please notify us at [imo@iarc.fr](mailto:imo@iarc.fr).

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Agents Classified by the IARC Monographs, Volumes 1–113					
CAS No.	Agent	Group	Volume	Year	Additional information
50-00-0	Formaldehyde	1	Sup 7, 62, 88, 100F	2012	
50-06-6	Phenobarbital	2B	Sup 7, 79	2001	
50-07-7	Mitomycin C	2B	10, Sup 7	1987	
50-18-0 6055-19-2	Cyclophosphamide	1	26, Sup 7, 100A	2012	
50-29-3	DDT (4,4'-Dichlorodiphenyltrichloroethane)	2A	Sup 7, 53, 113	In prep.	
50-32-8	Benzo[ <i>a</i> ]pyrene	1	Sup 7, 92, 100F	2012	NB: Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data
50-33-9	Phenylbutazone	3	13, Sup 7	1987	
50-41-9	Clomiphene citrate	3	21, Sup 7	1987	
50-44-2	6-Mercaptopurine	3	26, Sup 7	1987	
50-55-5	Reserpine	3	24, Sup 7	1987	
50-76-0	Actinomycin D	3	10, Sup 7	1987	
51-02-5	Pronetalol hydrochloride	3	13, Sup 7	1987	
51-03-6	Piperonyl butoxide	3	30, Sup 7	1987	
51-18-3	2,4,6-Tris(1-aziridinyl)- <i>s</i> -triazine	3	9, Sup 7	1987	
51-21-8	5-Fluorouracil	3	26, Sup 7	1987	
51-52-5	Propylthiouracil	2B	Sup 7, 79	2001	
51-75-2	Nitrogen mustard	2A	9, Sup 7	1987	
51-79-6	Ethyl carbamate (Urethane)	2A	7, Sup 7, 96	2010	
52-01-7	Spirolactone	3	Sup 7, 79	2001	
52-24-4	Thiotepa	1	Sup 7, 50, 100A	2012	
52-46-0	Apholate	3	9, Sup 7	1987	
52-68-6	Trichlorfon	3	30, Sup 7	1987	
53-03-2	Prednisone	3	26, Sup 7	1987	
53-70-3	Dibenz[ <i>a,h</i> ]anthracene	2A	Sup 7, 92	2010	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
54-05-7	Chloroquine	3	13, Sup 7	1987	
54-31-9	Furosemide (Frusemide)	3	50	1990	
54-85-3	Isonicotinic acid hydrazide (Isoniazid)	3	4, Sup 7	1987	
55-18-5	<i>N,N</i> -Nitrosodiethylamine	2A	17, Sup 7	1987	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
55-98-1	1,4-Butanediol dimethanesulfonate (see Busulfan)	-	-	-	
55-98-1	Busulfan	1	4, Sup 7, 100A	2012	
55-98-1	Myleran (see Busulfan)	-	-	-	
56-04-2	Methylthiouracil	2B	Sup 7, 79	2001	
56-23-5	Carbon tetrachloride	2B	20, Sup 7, 71	1999	
56-25-7	Cantharidin	3	10, Sup 7	1987	
56-38-2	Parathion	2B	30, Sup 7, 112	In prep.	
56-53-1	Diethylstilbestrol	1	21, Sup 7, 100A	2012	
56-55-3	Benz[ <i>a</i> ]anthracene	2B	92, Sup 7	2010	
56-75-7	Chloramphenicol	2A	Sup 7, 50	1990	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
57-06-7	Allyl isothiocyanate	3	73, Sup 7	1999	
57-14-7	1,1-Dimethylhydrazine	2B	4, Sup 7, 71	1999	
57-39-6	Tris(2-methyl-1-aziridinyl)phosphine oxide	3	9, Sup 7	1987	
57-41-0	Phenytoin	2B	Sup 7, 66	1996	
57-57-8	beta-Propiolactone	2B	4, Sup 7, 71	1999	
57-68-1	Sulfamethazine	3	79	2001	NB: Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data
57-74-9	Chlordane	2B	Sup 7, 53, 79	2001	
57-88-5	Cholesterol	3	31, Sup 7	1987	
58-08-2	Caffeine	3	51	1991	
58-14-0	Pyrimethamine	3	13, Sup 7	1987	
58-55-9	Theophylline	3	51	1991	
58-89-9	Lindane (see also Hexachlorocyclohexanes)	1	113	In prep.	
58-93-5	Hydrochlorothiazide	2B	50, 108	in prep.	
59-05-2	Methotrexate	3	26, Sup 7	1987	
59-87-0	Nitrofurantoin (Nitrofurazone)	3	50	1990	
59-89-2	<i>N,N</i> -Nitrosomorpholine	2B	17, Sup 7	1987	
60-09-3	<i>para</i> -Aminoazobenzene	2B	8, Sup 7	1987	
60-11-7	<i>para</i> -Dimethylaminoazobenzene	2B	8, Sup 7	1987	
60-35-5	Acetamide	2B	7, Sup 7, 71	1999	
60-56-0	Methimazole	3	79	2001	
60-57-1	Dieldrin	3	5, Sup 7	1987	
61-57-4	Niridazole	2B	13, Sup 7	1987	
61-82-5	Amitrole	3	79, Sup 7	2001	NB: Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data
62-44-2	Phenacetin	1	24, Sup 7, 100A	2012	NB: Overall evaluation upgraded to Group 1 with supporting evidence from other relevant data
62-50-0	Ethyl methanesulfonate	2B	7, Sup 7	1987	
62-53-3	Aniline	3	27, Sup 7	1987	
62-55-5	Thioacetamide	2B	7, Sup 7	1987	