

Table 10b. List of cycloketones in human body.

CAS-number	Compound name	Formula	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva	Semen
<i>Aliphatic cyclic ketones</i>										
<i>Cyclopentanones</i>										
930-30-3	2-cyclopenten-1-one	C5H6O			[6, 305, 364]					
10493-98-8	2-Cyclopenten-1-one, 2-hydroxy-	C5H6O2								[241]
120-92-3	cyclopentanone / Adipic ketone	C5H8O		[256, 258]	[6, 377]					
1120-72-5	2-methylcyclopentan-1-one	C6H10O			[361, 408]	[176]			[111]	[241]
1757-42-2	3-methylcyclopentanone	C6H10O		[202, 255]		[176]				
1120-73-6	2-methyl-2-cyclopentene-1-one / 2-Cyclopenten-2-methyl-1-one	C6H8O		[193, 196]	[364, 408]					
2758-18-1	1-methyl-1-cyclopenten-3-one	C6H8O			[408]					
4971-18-0	2-Ethylcyclopentanone	C7H12O							[111]	
4041-09-2	2,5-Dimethylcyclopentanone	C7H12O							[111]	
10264-55-8	3-ethylcyclopentanone	C7H12O		[194, 196, 202]				[125]		
1670-46-8	2-acetyl-cyclopentanone	C8H12O			[408]					

1767-84-6	1-(2-methyl-2-cyclopenten-1-yl)ethanone	C8H12O	[9]	[408]		
55683-21-1	3,4,5-trimethyl-2-cyclopenten-1-one	C8H12O		[408]		
488-10-8	jasmone	C11H16O			[182]	[182, 420]
109959-42-4	methyl trans-jasmonate	C13H20O3			[182]	
24851-98-7	methyl dihydrojasmonate / methyl 2-pentyl-3-oxo-1-cyclopentyl acetate	C13H22O3			[176]	
39647-11-5	methyl-cis-dihydrojasmonate	C13H22O3			[182]	[182, 420]
<i>Cyclopentandiones</i>						
ui	cyclopentanedione	C5H6O2				[114]
3008-40-0	1,2-Cyclopentanedione	C5H6O2				[167]
765-69-5	1,3-cyclopentanedione, 2-methyl-	C6H8O2		[364]		
51306-96-8	4-Cyclopentene-1,3-dione, 4-phenyl-	C11H8O2		[282]		
<i>Furan-3-one (furan-2-ones given in ester table under lactones)</i>						
3188-00-9	2-methyltetrahydrofuran-3-one	C5H8O2	[256, 258]			
3658-77-3	4-hydroxy-2,5-dimethyl-3(2H)furanone / Furaneol	C6H8O3		[29]		[162]
<i>Cyclohexanones</i>						
106-51-4	1,4-benzoquinone	C6H4O2		[378]		

108-94-1	cyclohexanone	C6H10O	[251, 256, 258]	[6, 275, 277, 291, 304, 311, 361, 369, 378, 404]	[130]	[114, 116]	[241]
930-68-7	1-cyclohexen-3-one / 2-cyclohexen-1-one	C6H8O		[408]			[241]
1193-18-6	3-methyl-2-cyclohexen-1-one / Seudenone	C7H10O	[193, 194, 196]	[275, 408]			
591-24-2	3-methylcyclohexanone	C7H12O	[193, 196]			[111]	
78-59-1	isophorone / 3,5,5-trimethylcyclohex-2-en-1-one	C9H14O	[193, 196, 202, 251]				
2408-37-9	2,2,6-trimethylcyclohexanone	C9H16O	[194, 250]				
50874-76-5	trimethylcyclohexanone	C9H16O			[128]		
6485-40-1	(R)-Carvone / (-)-carvone / L-carvone / carvol	C10H14O	[196, 253]				
2244-16-8	(S)-carvone / (+)-carvone / (S)-2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-one / D-carvone	C10H14O	[194, 250, 256, 258]	[408]		[110]	
99-49-0	carvone / 2-methyl-5-isopropenyl-2-cyclohexen-1-one	C10H14O	[196, 198]	[341, 383, 408]			
5948-04-9	trans-dihydrocarvone	C10H16O				[110]	
5524-05-0	(+)-dihydrocarvone	C10H16O				[110]	
89-81-6	6-isopropyl-3-methyl-1-cyclohex-2-enone / 3-methyl-6-(1-methylethyl)-2-cyclohexen-1-one / piperitone / 3-Carvomenthenone	C10H16O	[193, 194, 196, 250, 254-256]	[408]		[110]	

5113-66-6	5-methyl-2-(1-methylethyl)-2-cyclohexen-1-one / 2-cyclohexen-1-one, 5-methyl-2-(1-methylethyl)-	C10H16O		[408]		
89-82-7	pulegone	C10H16O		[193, 196, 194]		[110]
10458-14-7	(dl) p-menthan-3-one / 2-isopropyl-5-methylcyclohexanone / cyclohexanone, 5-methyl-2-(1-methylethyl)- / L-menthone	C10H18O		[408]		[106]
1196-31-2	5-methyl-2-(1-methylethyl)-cyclohexanone, (2R,5R)- / p-Menthone	C10H8O	[196, 202]	[59, 106, 364, 386, 394, 408]		[110]
13215-88-8	megastigmatrienone / 2-Cyclohexen-1-one, 4-(2-buten-1-ylidene)-3,5,5-trimethyl-	C13H18O				[110]
10396-80-2	2,5-cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-hydroxy-4-methyl-	C15H24O2		[388]		
82304-66-3	7,9-di-tert-butyl-1-oxaspiro(4.5)deca-6,9-diene-2,8-dione	C17H24O3	[223]	[253]		
<i>Pyranones</i>						
118-71-8	Maltol	C6H6O3				[167]
1073-96-7	3,5-Dihydroxy-2-methyl-4H-pyran-4-one	C6H6O4				[167]
4225-42-7	2-methoxy-6-methyl-(4H)-pyran-4-one	C7H8O3			[178]	
520-45-6	3-acetyl-6-methyl-2H-pyran-2,4(3H)dione	C8H8O4			[178]	

68555-63-5	Maltol propionate <i>Cycloheptanone and cyclooctanone</i>	C9H10O4					[167]
503-93-5	eucarvone / 2,6,6-trimethyl-2,4-cycloheptadien-1-one	C10H14O	[193, 194]				
502-49-8	Cyclooctanone <i>Bicyclo and multicyclocompounds</i>	c8H14O		[364]			
62989-33-7	Tetrahydrobiopterin	C9H15N5O3		[400]			
28226-49-5	car-2-en-4-one	C10H14O	[193]				
30460-92-5	Pinocarvone	C10H14O	[196]				
499126-76-0	6,6-dimethyl-2-methylenebicyclo[2.2.1]heptan-3-one	C10H14O	[194]				
53803-33-1	Camphenone,6	C10H14O	[202]				
76-22-2	1,7,7-trimethyl-bicyclo[2.2.1]heptan-2-one / camphor	C10H16O	[196]	[378, 408]	[176]		[155, 163]
66965-44-4	2-oxo-1,8-cineole	C10H16O2					[172]
na	3-oxo-1,8- cineole	C10H16O2					[172]
531-59-9	7-methoxycoumarin	C10H8O3	[208]				
87-05-8	7-ethoxy-4-methylchromen-2-one / 7-Ethoxy-4-methylcoumarin	C12H12O3		[383]			
54789-22-9	3,3,5,6-Tetramethyl-1-indanone	C13H16O3	[254]				
na	3,4,4-Trimethyl-3-(3-oxo-but-1-enyl)- bicyclo[4.1.0]heptan-2-one	C14H20O2	[253]				

719-22-2	2,6-Di-tert-butylbenzoquinone / 2,6-Di-tert-butylcyclohexa-2,5- diene-1,4-dione	C14H20O2	[253, 254]	[344, 388]	
520-18-3	kaempferol	C15H10O6		[400]	
na	5,13,14,15-tetrahydroxy-8,17- dioxatetracyclo[8.7.0.0(2),0(1)(1),(1)]heptadeca- 1(10),2(7),3,5,11,13,15-heptaen- 9-one	C15H8O7		[383]	
50-59-9	Cephaloridine	C19H17N3O 4S2			[241]
855-97-0	3',4',5,7-Tetramethoxyflavone	C19H18O6		[409]	
4075-07-4	androsta-4,16-dien-3-one	C19H26O	[208]		
18339-16- 7	5alpha-androst-16-en-3-one	C19H28O	[208]		[162, 164]
739-27-5	3-hydroxyandrostan-11,17- dione	C19H28O3		[178]	
4651-67-6	nutriacholic acid / 7- Ketolithocholic acid	C24H38O4		[383]	
567-72-6	cholesta-3,5-dien-7-one	c27H42O			[419]
ui	an androgen steroid	ui		[182]	