

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	SD - Opacity	Mean OD <sub>490</sub>	SD - OD <sub>490</sub>	In Vitro Score	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
1-1 (#1)	-	liquid	100%	n.p.	-					83.6		Severe	Severe	Cat I	Swanson and Harbell (2000)
1-2 (#2)	-	liquid	100%	n.p.	-					12.4		Mild	Mild	Cat III	Swanson and Harbell (2000)
1-3 (#3)	-	liquid	100%	n.p.	-					29.6		Moderate	Moderate	Cat II	Swanson and Harbell (2000)
1-Naphthalene acetic acid	86-87-3	solid	20%	96	1	119.4		0.095		120.8		Very severe	Very Severe	Cat II	Balls et al. (1995)
1-Naphthalene acetic acid	86-87-3	solid	20%	96	2	65.7		0.045		66.3		Severe			Balls et al. (1995)
1-Naphthalene acetic acid	86-87-3	solid	20%	96	3	41		0.065		42		Moderate			Balls et al. (1995)
1-Naphthalene acetic acid	86-87-3	solid	20%	96	4	86.67		0.137		88.73		Very severe			Balls et al. (1995)
1-Naphthalene acetic acid	86-87-3	solid	20%	96	5	70		0.168		72.5		Severe			Balls et al. (1995)
1-Naphthalene acetic acid, Na salt	61-31-4	solid	20%	95	1	73.3		4.177		136		Very severe	Very Severe	Cat I	Balls et al. (1995)
1-Naphthalene acetic acid, Na salt	61-31-4	solid	20%	95	2	83		4.124		144.9		Very severe			Balls et al. (1995)
1-Naphthalene acetic acid, Na salt	61-31-4	solid	20%	95	3	73		5.864		161		Very severe			Balls et al. (1995)
1-Naphthalene acetic acid, Na salt	61-31-4	solid	20%	95	4	108		3.55		161.2		Very severe			Balls et al. (1995)
1-Naphthalene acetic acid, Na salt	61-31-4	solid	20%	95	5	94.7		3.222		143		Very severe			Balls et al. (1995)
1-Nitropropane	108-03-2	liquid	100%	n.p.	1					11		Mild	Mild	Cat III	Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	2					8		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	3					9		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	4					4		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	5					6		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	6					7		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	7					6		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	8					6		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	9					17		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	10					4		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	11					6		Mild			Gautheron et al. (1994)
1-Nitropropane	108-03-2	liquid	100%	n.p.	12					7		Mild			Gautheron et al. (1994)

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1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	1					7	Mild	Mild	Cat III	Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	2					12	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	3					15	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	4					9	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	5					28	Moderate			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	6					6	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	7					6	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	8					16	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	9					13	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	10					15	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	11					13	Mild			Gautheron et al. (1994)
1-Phenyl-3-pyrazolidone	92-43-3	solid	20%	n.p.	12					15	Mild			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	1					47	Moderate	Moderate	Cat II	Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	2					42	Moderate			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	3					78	Severe			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	4					28	Moderate			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	5					42	Moderate			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	6					47	Moderate			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	7					48	Moderate			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	8					24	Mild			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	9					91	Severe			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	10					no data	n.a.			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	11					28	Moderate			Gautheron et al. (1994)
1,2,3-Trichloropropane	96-18-4	liquid	100%	n.p.	12					47	Moderate			Gautheron et al. (1994)

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1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	1					25		Mild	Mild	Cat III	Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	2					14		Mild			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	3					26		Moderate			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	4					11		Mild			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	5					27		Moderate			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	6					7		Mild			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	7					9		Mild			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	8					15		Mild			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	9					21		Mild			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	10					10		Mild			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	11					7		Mild			Gautheron et al. (1994)
1,2,4-Trimethylbenzene	95-63-6	liquid	100%	n.p.	12					21		Mild			Gautheron et al. (1994)
2-4 (#4)	-	liquid	100%	n.p.	-					7.3		Mild	Mild	Cat III	Swanson and Harbell (2000)
2-7 (#7)	-	liquid	100%	n.p.	-					21.4		Mild	Mild	Cat III	Swanson and Harbell (2000)
2-8 (#8)	-	liquid	100%	n.p.	-					31.8		Moderate	Moderate	Cat II	Swanson and Harbell (2000)
2-Aminophenol	95-55-6	solid	20%	n.p.	1					7		Mild	Mild	Cat III	Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	2					5		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	3					3		Not Labeled			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	4					5		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	5					6		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	6					7		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	7					5		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	8					6		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	9					13		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	10					11		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	11					5		Mild			Gautheron et al. (1994)
2-Aminophenol	95-55-6	solid	20%	n.p.	12					11		Mild			Gautheron et al. (1994)
2-Chloro-2,4,4-trimethylpentane	-	liquid	100%	n.p.	-	4.0		0.004		4.1		Mild	Mild	Cat III	Bailey et al. (2004)

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2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	1							99			Severe	Severe	Cat I	Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	2							100			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	3							128			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	4							75			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	5							75			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	6							85			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	7							94			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	8							93			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	9							84			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	10							75			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	11							101			Severe			Gautheron et al. (1994)
2-Ethoxyethanol	110-80-5	liquid	100%	n.p.	12							86			Severe			Gautheron et al. (1994)
2-Ethyl-1-hexanol	104-76-7	liquid	100%	99	2	9			1.279			28.2			Moderate	Moderate	Cat II	Balls et al. (1995)
2-Ethyl-1-hexanol	104-76-7	liquid	100%	99	3	4.3			1.761			30.7			Moderate			Balls et al. (1995)
2-Ethyl-1-hexanol	104-76-7	liquid	100%	99	4	7			3.347			58.71			Severe			Balls et al. (1995)
2-Ethyl-1-hexanol	104-76-7	liquid	100%	99	5	7			0.837			19.6			Mild			Balls et al. (1995)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	1							0			Not Labeled	Not Labeled	Not Labeled	Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	2							-1			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	3							-1			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	4							1			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	5							0			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	6							1			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	7							0			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	8							-8			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	9							0			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	10							0			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	11							-4			Not Labeled			Gautheron et al. (1994)
2-Mercaptopyrimidine	1450-85-7	solid	20%	n.p.	12							-3			Not Labeled			Gautheron et al. (1994)

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2-Methoxyethanol	109-86-4	liquid	100%	n.p.	1							61			Severe	Severe	Cat II	Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	2							69			Severe			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	3							66			Severe			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	4							47			Moderate			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	5							48			Moderate			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	6							62			Severe			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	7							65			Severe			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	8							62			Severe			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	9							57			Severe			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	11							74			Severe			Gautheron et al. (1994)
2-Methoxyethanol	109-86-4	liquid	100%	n.p.	12							88			Severe			Gautheron et al. (1994)
2,2-Dimethylbutanoic acid	595-37-9	liquid	100%	96	1	65			2.583			103.8			Very severe	Very Severe	Cat I	Balls et al. (1995)
2,2-Dimethylbutanoic acid	595-37-9	liquid	100%	96	2	58.3			3.78			115			Very severe			Balls et al. (1995)
2,2-Dimethylbutanoic acid	595-37-9	liquid	100%	96	3	62.7			4.601			131.7			Very severe			Balls et al. (1995)
2,2-Dimethylbutanoic acid	595-37-9	liquid	100%	96	4	84			3.803			130.26			Very severe			Balls et al. (1995)
2,2-Dimethylbutanoic acid	595-37-9	liquid	100%	96	5	37			2.783			78.8			Severe			Balls et al. (1995)

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2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	1							23			Mild	Mild	Cat III	Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	2							23			Mild			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	3							18			Mild			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	4							28			Moderate			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	5							16			Mild			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	6							31			Moderate			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	7							18			Mild			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	8							71			Severe			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	9							19			Mild			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	10							20			Mild			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	11							34			Moderate			Gautheron et al. (1994)
2,4-Dichloro-5-sulfamoylbenzoic acid	2736-23-4	solid	20%	n.p.	12							14			Mild			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	1							61			Severe	Severe	Cat II	Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	2							79			Severe			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	3							75			Severe			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	4							34			Moderate			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	5							70			Severe			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	6							46			Moderate			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	7							54			Moderate			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	8							44			Moderate			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	9							50			Moderate			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	10							67			Severe			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	11							62			Severe			Gautheron et al. (1994)
2,4-Pentanedione	123-54-6	liquid	100%	n.p.	12							76			Severe			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
2,5-Dimethylhexanediol	110-03-2	solid	20%	99.5	1	12		0.415		18.2		Mild	Mild	Cat III	Balls et al. (1995)
2,5-Dimethylhexanediol	110-03-2	solid	20%	99.5	2	10.7		0.979		25.3		Moderate			Balls et al. (1995)
2,5-Dimethylhexanediol	110-03-2	solid	20%	99.5	3	6.7		0.925		20.5		Mild			Balls et al. (1995)
2,5-Dimethylhexanediol	110-03-2	solid	20%	99.5	4	21.33		0.68		31.533		Moderate			Balls et al. (1995)
2,5-Dimethylhexanediol	110-03-2	solid	20%	99.5	5	4.7		0.245		8.3		Mild			Balls et al. (1995)
2,6-Dichlorobenzoyl chloride	4659-45-4	liquid	100%	99	1	9		0.058		9.9		Mild	Mild	Cat III	Balls et al. (1995)
2,6-Dichlorobenzoyl chloride	4659-45-4	liquid	100%	99	2	10.3		0.059		11.2		Mild			Balls et al. (1995)
2,6-Dichlorobenzoyl chloride	4659-45-4	liquid	100%	99	3	9.7		0.078		10.8		Mild			Balls et al. (1995)
2,6-Dichlorobenzoyl chloride	4659-45-4	liquid	100%	99	4	14.33		0.007		14.43		Mild			Balls et al. (1995)
2,6-Dichlorobenzoyl chloride	4659-45-4	liquid	100%	99	5	5.4		0.012		5.6		Mild			Balls et al. (1995)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	1					18		Mild	Mild	Cat III	Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	2					24		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	3					25		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	4					14		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	5					13		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	6					6		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	7					15		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	8					18		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	9					18		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	10					4		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	11					23		Mild			Gautheron et al. (1994)
3-Glycidoxypropyltrimethoxysilane	2530-83-8	liquid	100%	n.p.	12					21		Mild			Gautheron et al. (1994)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	1	97.3		0.02		97.6		Very severe	Severe	Cat II	Balls et al. (1995)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	2	96.3		0.116		98.1		Very severe			Balls et al. (1995)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	3	57.3		0.012		57.5		Severe			Balls et al. (1995)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	4	64		0.022		64.33		Severe			Balls et al. (1995)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	5	72		0.128		73.9		Severe			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	1 (1)	53.7	3	4.6	0.012	3	0.012	53.9	3	4.9	Moderate	Moderate	Moderate	Southee (1998)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	1 (2)	47.7	3	3.5	0.002	3	0.02	47.7	3	3.4	Moderate			Southee (1998)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	2 (1)	46.3	3	3.2	0.05	3	0.021	47.1	3	3.1	Moderate			Southee (1998)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	2 (2)	46.4	3	2.9	0.058	3	0.014	47.2	3	2.9	Moderate			Southee (1998)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	3 (1)	42	3	4.5	0.013	3	0.016	42.2	3	4.3	Moderate			Southee (1998)
4-Carboxybenzaldehyde	619-66-9	solid	20%	95	3 (2)	41.3	3	4.0	0.035	3	0.006	41.8	3	3.9	Moderate			Southee (1998)
5-Ethylidene-2-norbornene	16219-75-3	liquid	100%	n.p.	-	5.7			0.207			8.8			Mild	Mild	Cat III	Bailey et al. (2004)
A		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	206.9	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AB		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	90	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AC		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	134.8	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
Acetone	67-64-1	liquid	100%	99	1	90.3			3.676			145.5			Very severe	Very Severe	Cat I	Balls et al. (1995)
Acetone	67-64-1	liquid	100%	99	2	83.7			2.389			119.5			Very severe			Balls et al. (1995)
Acetone	67-64-1	liquid	100%	99	3	55.7			4.315			120.4			Very severe			Balls et al. (1995)
Acetone	67-64-1	liquid	100%	99	4	94.33			2.492			131.72			Very severe			Balls et al. (1995)
Acetone	67-64-1	liquid	100%	99	5	69.3			1.942			98.4			Very severe			Balls et al. (1995)
AD		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	113.1	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AE		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	66.7	n.p.	n.p.	Cat I	Cat I	Cat II	AMCP BRD
AF		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	9.6	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
AG		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	391.9	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AH		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	255.7	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AI		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	354.7	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AJ		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	357.1	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AK		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	444.3	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AL		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	353.6	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
Alkyl phosphoric acid ester/amine salt	-	liquid	100%	n.p.	-	37.7			3.577			91.3			Severe	Severe	Cat I	Bailey et al. (2004)
All Purpose Cleaner (#5)	-	liquid	100%	n.p.	-	102.5	5		1.252	5		121.3	5		Severe	Severe	Cat I	Swanson et al. (1995)
All Purpose Cleaner (#7)	-	liquid	100%	n.p.	-	348.1	5		3.013	5		393.3	5		Severe	Severe	Cat I	Swanson et al. (1995)



***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Allyl alcohol	107-18-6	liquid	100%	n.p.	1							156			Severe	Severe	Cat I	Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	2							138			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	3							232			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	4							156			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	5							132			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	6							191			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	7							190			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	8							166			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	9							123			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	10							101			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	11							200			Severe			Gautheron et al. (1994)
Allyl alcohol	107-18-6	liquid	100%	n.p.	12							90			Severe			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	1							5			Mild	Mild	Cat III	Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	2							4			Mild			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	3							10			Mild			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	4							3			Not Labeled			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	5							5			Mild			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	6							28			Moderate			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	7							2			Not Labeled			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	8							4			Mild			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	9							10			Mild			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	10							6			Mild			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	11							2			Not Labeled			Gautheron et al. (1994)
Aluminum hydroxide	21645-51-2	solid	20%	n.p.	12							2			Not Labeled			Gautheron et al. (1994)
AM		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	135.8	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Ammonium nitrate	6484-52-2	solid	20%	>99.9	1	6.3			0.132			8.3			Mild	Mild	Cat III	Balls et al. (1995)
Ammonium nitrate	6484-52-2	solid	20%	>99.9	2	6			0.026			6.4			Mild			Balls et al. (1995)
Ammonium nitrate	6484-52-2	solid	20%	>99.9	3	6			0.079			7.2			Mild			Balls et al. (1995)
Ammonium nitrate	6484-52-2	solid	20%	>99.9	4	11.34			0.698			21.82			Mild			Balls et al. (1995)
Ammonium nitrate	6484-52-2	solid	20%	>99.9	5	4.7			0.034			5.2			Mild			Balls et al. (1995)
Ammonium nitrate	6484-52-2	n.p.	100%	n.p.	1 (1)	4.3	3	2.1	0.037	3	0.036	4.9	3	2.4	Mild	Mild	Mild	Southee (1998)
Ammonium nitrate	6484-52-2	n.p.	100%	n.p.	1 (2)	5.0	3	1.2	0.059	3	0.031	5.9	3	1.4	Mild			Southee (1998)
Ammonium nitrate	6484-52-2	n.p.	100%	n.p.	2 (1)	1.6	3	1.2	0.153	3	0.059	3.9	3	1.8	Mild			Southee (1998)
Ammonium nitrate	6484-52-2	n.p.	100%	n.p.	2 (2)	2.0	3	0.6	0.107	3	0.044	3.6	3	1	Mild			Southee (1998)
Ammonium nitrate	6484-52-2	n.p.	100%	n.p.	3 (1)	3.7	3	0.6	0.100	3	0.033	5.2	3	0.6	Mild			Southee (1998)
Ammonium nitrate	6484-52-2	n.p.	100%	n.p.	3 (2)	4.3	3	0.6	0.158	3	0.07	6.7	3	1.5	Mild	Southee (1998)		
AN		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	113.5	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
Anthracene	120-12-7	solid	20%	n.p.	1							-2			Not Labeled	Not Labeled	Not Labeled	Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	2							1			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	3							-3			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	4							0			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	5							0			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	6							-1			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	7							0			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	8							0			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	9							1			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	10							0			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	11							-2			Not Labeled			Gautheron et al. (1994)
Anthracene	120-12-7	solid	20%	n.p.	12							2			Not Labeled			Gautheron et al. (1994)
AO		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	216.2	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AP		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	393.3	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AQ		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	84.9	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AR		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	116.1	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Aromatic hydrocarbon #1	-	liquid	100%	n.p.	-	2.7			0.000			2.7			Not Labeled	Not Labeled	Not Labeled	Bailey et al. (2004)
Aromatic hydrocarbon #2	-	liquid	100%	n.p.	-	4.3			0.017			4.6			Mild	Mild	Cat III	Bailey et al. (2004)
Aryl phosphonates	-	liquid	100%	n.p.	-	20.3			1.399			41.3			Moderate	Moderate	Cat II	Bailey et al. (2004)
AS		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	79.8	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AT		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	85.6	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AU		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	122.2	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AV		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	191.8	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AW		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	43.1	n.p.	n.p.	Cat II	Cat II	Cat II	AMCP BRD
AX		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	157.3	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
AY		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	194.3	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
B		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	152.2	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
Bathroom Cleaner (#6)	-	liquid	100%	n.p.	-	64	5		0.95	5		78.3	5		Severe	Severe	Cat I	Swanson et al. (1995)
BB		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	2	n.p.	n.p.	Not Labeled	Not Labeled	Cat IV	AMCP BRD
BD		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	18.3	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
BE		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	15	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
Benchmark-Group 1 (#12)	-	liquid	100%	n.p.	-							60.1			Severe	Severe	Cat II	Swanson and Harbell (2000)
Benchmark-Group 2 (#13)	-	liquid	100%	n.p.	-							60.1			Severe	Severe	Cat II	Swanson and Harbell (2000)
Benzalkonium chloride (1 %)	8001-54-5	liquid	1%	98	1	59			3.588			112.8			Very severe	Very Severe	Cat I	Balls et al. (1995)
Benzalkonium chloride (1 %)	8001-54-5	liquid	1%	98	2	37			3.566			90.5			Very severe			Balls et al. (1995)
Benzalkonium chloride (1 %)	8001-54-5	liquid	1%	98	3	34.3			4.336			99.4			Very severe			Balls et al. (1995)
Benzalkonium chloride (1 %)	8001-54-5	liquid	1%	98	4	22			2.699			62.49			Severe			Balls et al. (1995)
Benzalkonium chloride (1 %)	8001-54-5	liquid	1%	98	5	38			2.706			78.6			Severe			Balls et al. (1995)
Benzalkonium chloride (10%)	8001-54-5	liquid	10%	98	1	75.3			4.456			142.2			Very severe	Very Severe	Cat I	Balls et al. (1995)
Benzalkonium chloride (10%)	8001-54-5	liquid	10%	98	2	79.3			5.223			157.7			Very severe			Balls et al. (1995)
Benzalkonium chloride (10%)	8001-54-5	liquid	10%	98	3	61.7			4.142			123.8			Very severe			Balls et al. (1995)
Benzalkonium chloride (10%)	8001-54-5	liquid	10%	98	4	63			4.967			137.5			Very severe			Balls et al. (1995)
Benzalkonium chloride (10%)	8001-54-5	liquid	10%	98	5	74.7			3.096			121.1			Very severe			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	1 (1)	84.0	3	3.8	7.408	3	0.903	195.2	3	11.3	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	1 (2)	85.6	3	3.2	3.305	3	0.225	135.2	3	5.2	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	1 (3)	82.0	3	1.7	3.729	3	0.25	137.9	3	2.3	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	1 (4)	85.0	3	5.2	4.766	3	1.132	156.5	3	18.6	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	1 (5)	87.7	3	1.7	3.354	3	0.108	138.0	3	0.1	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	1 (6)	91.7	3	7.0	5.67	3	1.096	176.8			Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	1 (7)	98.3	3	2.6	5.645	3	0.523	183.0			Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	1 (8)	87.7	3	2.9	5.848	3	0.581	175.4			Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	2 (1)	88.0	3	7.5	4.426	3	0.623	154.4	3	11.1	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	2 (2)	94.6	3	10.4	4.148	3	0.662	156.9	3	18.6	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	2 (3)	87.0	3	7.5	4.252	3	0.069	150.8	3	7.1	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	2 (4)	93.0	3	3.0	4.278	3	1.058	157.2	3	18.0	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	2 (5)	98.3	3	2.3	3.972	3	0.360	157.9	3	3.4	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	2 (6)	95.7	3	5.0	4.129	3	0.581	157.0			Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	2 (7)	98.0	3	5.1	4.144	3	0.232	160.2			Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (1)	96.7	3	2.0	4.015	3	1.011	156.9	3	17.1	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (2)	92.6	3	11.8	4.719	3	1.547	163.4	3	16.2	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (3)	105.0	3	6.1	4.316	3	0.320	169.7	3	10.2	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (4)	95.3	3	4.0	4.497	3	1.007	162.8	3	11.4	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (5)	92.3	3	7.2	3.948	3	0.231	151.6	3	7.7	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (6)	93.7	3	4.9	4.624	3	1.708	163.1	3	22.1	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (7)	100.7	3	2.5	4.473	3	0.619	167.8	3	7.8	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (8)	96.7	3	2.0	9.016	3	1.011	156.9	3	17.1	Very severe			Southee (1998)
Benzalkonium chloride (100%)	8001-54-5	liquid	10%	n.p.	3 (9)	97.3	3	5.1	4.183	3	0.514	160.0	3	8.2	Very severe			Southee (1998)

Very Severe

Cat I

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	SD - Opacity	Mean OD <sub>490</sub>	SD - OD <sub>490</sub>	In Vitro Score	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Benzalkonium chloride (5%)	8001-54-5	liquid	5%	98	1	126.6		3.264		126.6		Very severe	Very Severe	Cat I	Balls et al. (1995)
Benzalkonium chloride (5%)	8001-54-5	liquid	5%	98	2	163.7		6.599		163.7		Very severe			Balls et al. (1995)
Benzalkonium chloride (5%)	8001-54-5	liquid	5%	98	3	110.7		3.891		110.7		Very severe			Balls et al. (1995)
Benzalkonium chloride (5%)	8001-54-5	liquid	5%	98	4	130.41		4.338		130.41		Very severe			Balls et al. (1995)
Benzalkonium chloride (5%)	8001-54-5	liquid	5%	98	5	111.1		3.117		111.1		Very severe			Balls et al. (1995)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	1					128		Severe	Severe	Cat I	Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	2					124		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	3					163		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	4					106		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	5					128		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	6					129		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	7					142		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	8					129		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	9					166		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	10					no data		n.a.			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	11					142		Severe			Gautheron et al. (1994)
Benzethonium chloride	121-54-0	surfactant	10%	n.p.	12					116		Severe			Gautheron et al. (1994)
Benzoyl-L-tartaric acid	2743-38-6	solid	20%										Severe	Cat I	Balls et al. (1995)
Benzoyl-L-tartaric acid	2743-38-6	solid	20%												Balls et al. (1995)
Benzoyl-L-tartaric acid	2743-38-6	solid	20%												Balls et al. (1995)
Benzoyl-L-tartaric acid	2743-38-6	solid	20%												Balls et al. (1995)
Benzoyl-L-tartaric acid	2743-38-6	solid	20%												Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Betaine monohydrate	590-47-6	solid	20%	n.p.	1							4			Mild	Mild	Cat III	Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	2							1			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	3							0			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	4							1			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	5							1			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	6							3			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	7							1			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	8							-10			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	9							4			Mild			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	10							-1			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	11							1			Not Labeled			Gautheron et al. (1994)
Betaine monohydrate	590-47-6	solid	20%	n.p.	12							6			Mild			Gautheron et al. (1994)
BF		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	63.5	n.p.	n.p.	Cat I	Cat I	Cat II	AMCP BRD
BJ		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	78.3	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
BJ		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	54.6	n.p.	n.p.	Cat II	Cat II	Cat II	AMCP BRD
BK		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	6.7	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
BL		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	6	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
BM		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	25.4	n.p.	n.p.	Cat II	Cat II	Cat II	AMCP BRD
BN		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	13.5	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
BP		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	19.1	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
BQ		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	33.6	n.p.	n.p.	Cat II	Cat II	Cat II	AMCP BRD

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	1					0		Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	2					2		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	3					-1		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	4					1		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	5					0		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	6					0		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	7					0		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	8					0		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	9					1		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	10					no data		n.a.			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	11					-2		Not Labeled			Gautheron et al. (1994)			
BRIJ-35	9002-92-0	surfactant	10%	n.p.	12					-2		Not Labeled			Gautheron et al. (1994)			
Butyl acetate	123-86-4	liquid	100%	99	1	9		2.7		49.5		Moderate	Moderate	Cat II	Balls et al. (1995)			
Butyl acetate	123-86-4	liquid	100%	99	2	7.7		1.989		37.5		Moderate			Balls et al. (1995)			
Butyl acetate	123-86-4	liquid	100%	99	3	5.7		2.546		43.9		Moderate			Balls et al. (1995)			
Butyl acetate	123-86-4	liquid	100%	99	4	5		1.257		23.86		Mild			Balls et al. (1995)			
Butyl acetate	123-86-4	liquid	100%	99	5	2.3		1.051		18.1		Mild			Balls et al. (1995)			
Butyl cellulose	111-76-2	liquid	100%	n.p.	1 (1)	39	3	7.8	4.625	3	0.471	108.3	3	12.9	Very severe	Very Severe	Cat I	Southee (1998)
Butyl cellulose	111-76-2	liquid	100%	n.p.	1 (2)	43	3	4.0	4.589	3	0.418	111.8	3	5.5	Very severe			Southee (1998)
Butyl cellulose	111-76-2	liquid	100%	n.p.	2 (1)	29.6	3	1.5	4.213	3	0.78	92.8	3	13	Very severe			Southee (1998)
Butyl cellulose	111-76-2	liquid	100%	n.p.	2 (2)	31.3	3	2.3	4.526	3	0.864	99.2	3	10.7	Very severe			Southee (1998)
Butyl cellulose	111-76-2	liquid	100%	n.p.	3 (1)	37.7	3	1.0	3.813	3	0.933	94.9	3	13.8	Very severe			Southee (1998)
Butyl cellulose	111-76-2	liquid	100%	n.p.	3 (2)	37.7	3	6.1	4.031	3	1.206	98.2	3	21.6	Very severe			Southee (1998)
Butyrolactone	96-48-0	liquid	100%	n.p.	1							48			Moderate			Gautheron et al. (1994)
Butyrolactone	96-48-0	liquid	100%	n.p.	2							44			Moderate			Gautheron et al. (1994)
Butyrolactone	96-48-0	liquid	100%	n.p.	3							64			Severe			Gautheron et al. (1994)
Butyrolactone	96-48-0	liquid	100%	n.p.	4							35			Moderate			Gautheron et al. (1994)
Butyrolactone	96-48-0	liquid	100%	n.p.	5							35			Moderate			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	SD - Opacity	Mean OD <sub>490</sub>	SD - OD <sub>490</sub>	In Vitro Score	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference	
Butyrolactone	96-48-0	liquid	100%	n.p.	6					30		Moderate	Moderate	Cat II	Gautheron et al. (1994)	
Butyrolactone	96-48-0	liquid	100%	n.p.	7					80		Severe			Gautheron et al. (1994)	
Butyrolactone	96-48-0	liquid	100%	n.p.	8					32		Moderate			Gautheron et al. (1994)	
Butyrolactone	96-48-0	liquid	100%	n.p.	9					42		Moderate			Gautheron et al. (1994)	
Butyrolactone	96-48-0	liquid	100%	n.p.	10					53		Moderate			Gautheron et al. (1994)	
Butyrolactone	96-48-0	liquid	100%	n.p.	11					35		Moderate			Gautheron et al. (1994)	
Butyrolactone	96-48-0	liquid	100%	n.p.	12					49		Moderate			Gautheron et al. (1994)	
C		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	29.7	n.p.	n.p.	Cat II	Cat II	Cat II	AMCP BRD
Captan 90 concentrate	133-06-2	solid	20%	90	1	28		-0.008		27.8		Moderate	Moderate	Cat II	Balls et al. (1995)	
Captan 90 concentrate	133-06-2	solid	20%	90	2	26.3		0.055		27.2		Moderate			Balls et al. (1995)	
Captan 90 concentrate	133-06-2	solid	20%	90	3	34.7		0.007		34.8		Moderate			Balls et al. (1995)	
Captan 90 concentrate	133-06-2	solid	20%	90	4	102		0.061		102.918		Very severe			Balls et al. (1995)	
Captan 90 concentrate	133-06-2	solid	20%	90	5	26.3		0.004		26.4		Moderate			Balls et al. (1995)	
Carboxylic acid amides	-	solid	100%	n.p.	-	10.7		1.125		27.5		Moderate	Moderate	Cat II	Bailey et al. (2004)	
Cetylpyridinium bromide (0.1%)	140-72-7	liquid	0.10%	98	1	6.7		0.293		11		Mild	Mild	Cat III	Balls et al. (1995)	
Cetylpyridinium bromide (0.1%)	140-72-7	liquid	0.10%	98	2	1.7		0.163		4.1		Mild			Balls et al. (1995)	
Cetylpyridinium bromide (0.1%)	140-72-7	liquid	0.10%	98	3	3		0.606		12.1		Mild			Balls et al. (1995)	
Cetylpyridinium bromide (0.1%)	140-72-7	liquid	0.10%	98	4	3.33		0.066		4.33		Mild			Balls et al. (1995)	
Cetylpyridinium bromide (0.1%)	140-72-7	liquid	0.10%	98	5	6.3		0.543		14.5		Mild			Balls et al. (1995)	
Cetylpyridinium bromide (10%)	140-72-7	liquid	10%	98	1	22.7		1.389		43.5		Moderate	Very Severe	Cat I	Balls et al. (1995)	
Cetylpyridinium bromide (10%)	140-72-7	liquid	10%	98	2	27.7		4.128		89.6		Very severe			Balls et al. (1995)	
Cetylpyridinium bromide (10%)	140-72-7	liquid	10%	98	3	24.7		3.759		81		Very severe			Balls et al. (1995)	
Cetylpyridinium bromide (10%)	140-72-7	liquid	10%	98	4	17		3.97		71.22		Severe			Balls et al. (1995)	
Cetylpyridinium bromide (10%)	140-72-7	liquid	10%	98	5	23		3.58		76.7		Severe			Balls et al. (1995)	



***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Cetylpyridinium bromide (6%)	140-72-7	liquid	6%	98	1	31.7			2.705			72.2			Severe	Severe	Cat II	Balls et al. (1995)
Cetylpyridinium bromide (6%)	140-72-7	liquid	6%	98	2	38.3			3.195			86.3			Very severe			Balls et al. (1995)
Cetylpyridinium bromide (6%)	140-72-7	liquid	6%	98	3	18.3			3.015			63.6			Severe			Balls et al. (1995)
Cetylpyridinium bromide (6%)	140-72-7	liquid	6%	98	4	25.33			2.892			68.72			Severe			Balls et al. (1995)
Cetylpyridinium bromide (6%)	140-72-7	liquid	6%	98	5	34			2.097			65.4			Severe			Balls et al. (1995)
CG		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	3.9	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
CH		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	17.4	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
Chlorhexidine	55-56-1	solid	20%	n.p. <sup>12</sup>	1	141			0.399			147			Very severe	Very Severe	Cat I	Balls et al. (1995)
Chlorhexidine	55-56-1	solid	20%	n.p.	2	124			-0.071			122.9			Very severe			Balls et al. (1995)
Chlorhexidine	55-56-1	solid	20%	n.p.	3	96.3			0.062			97.3			Very severe			Balls et al. (1995)
Chlorhexidine	55-56-1	solid	20%	n.p.	4	97.66			0.277			101.78			Very severe			Balls et al. (1995)
Chlorhexidine	55-56-1	solid	20%	n.p.	5	98.7			0.189			101.5			Very severe			Balls et al. (1995)
Clarified slurry oil	-	liquid	100%	n.p.	-	2.3			0.000			2.3			Not Labeled	Not Labeled	Cat IV	Bailey et al. (2004)
Cleaner/Degreaser (#13)	-	liquid	100%	n.p.	-	314.3	5		2.623	5		353.6	5		Severe	Severe	Cat I	Swanson et al. (1995)
Cutting fluid (conc.) #1	-	liquid	100%	n.p.	-	3.3			0.001			3.5			Mild	Mild	Cat III	Bailey et al. (2004)
Cutting fluid (conc.) #2	-	liquid	100%	n.p.	-	4.3			0.038			4.9			Mild	Mild	Cat III	Bailey et al. (2004)
Cyclohexanol	108-93-0	liquid	100%	97	1	18.3			4.442			85			Very severe	Moderate	Cat II	Balls et al. (1995)
Cyclohexanol	108-93-0	liquid	100%	97	2	7.3			2.838			49.9			Moderate			Balls et al. (1995)
Cyclohexanol	108-93-0	liquid	100%	97	3	12			3.87			70.1			Severe			Balls et al. (1995)
Cyclohexanol	108-93-0	liquid	100%	97	4	11.66			2.71			52.24			Moderate			Balls et al. (1995)
Cyclohexanol	108-93-0	liquid	100%	97	5	7			2.392			43.2			Moderate			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Cyclohexanone	108-94-1	liquid	100%	n.p.	1							92			Severe	Severe	Cat I	Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	2							108			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	3							96			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	4							81			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	5							130			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	6							93			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	7							104			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	8							90			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	9							142			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	11							118			Severe			Gautheron et al. (1994)
Cyclohexanone	108-94-1	liquid	100%	n.p.	12							108			Severe			Gautheron et al. (1994)
D		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	187.7	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
Degreaser (#16)	-	liquid	100%	n.p.	-	225.4	5		2.022	5		255.7	5		Severe	Severe	Cat I	Swanson et al. (1995)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	1							96			Severe	Severe	Cat I	Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	2							72			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	3							106			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	4							73			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	5							119			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	6							103			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	7							88			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	8							46			Moderate			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	9							100			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	10							60			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	11							200			Severe			Gautheron et al. (1994)
Deoxycholic acid, sodium salt	302-95-4	surfactant	10%	n.p.	12							59			Severe			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	SD - Opacity	Mean OD <sub>490</sub>	SD - OD <sub>490</sub>	In Vitro Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Diacetone alcohol	123-42-2	liquid	100%	n.p.	1					53	Moderate	Moderate	Cat II	Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	2					41	Moderate			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	3					105	Severe			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	4					39	Moderate			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	5					42	Moderate			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	6					34	Moderate			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	7					49	Moderate			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	8					41	Moderate			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	9					92	Severe			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	10					no data	n.a.			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	11					36	Moderate			Gautheron et al. (1994)
Diacetone alcohol	123-42-2	liquid	100%	n.p.	12					56	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	1					104	Severe	Severe	Cat I	Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	2					134	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	3					82	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	4					118	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	5					110	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	6					66	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	7					88	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	8					193	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	9					82	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	10					no data	n.a.			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	11					213	Severe			Gautheron et al. (1994)
Dibenzoyl-L-tartaric acid	2743-38-6	solid	20%	n.p.	12					135	Severe			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Dibenzyl phosphate	1623-08-1	solid	20%	99	1	304.3		-0.017		304.1		Very severe	Very Severe	Cat I	Balls et al. (1995)
Dibenzyl phosphate	1623-08-1	solid	20%	99	2	389.3		0.117		391.1		Very severe			Balls et al. (1995)
Dibenzyl phosphate	1623-08-1	solid	20%	99	3	418		-0.002		418		Very severe			Balls et al. (1995)
Dibenzyl phosphate	1623-08-1	solid	20%	99	4	467		-0.016		467.09		Very severe			Balls et al. (1995)
Dibenzyl phosphate	1623-08-1	solid	20%	99	5	304		0.234		307.5		Very severe			Balls et al. (1995)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	1					10		Mild	Mild	Cat III	Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	2					10		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	3					14		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	4					11		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	5					11		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	6					14		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	7					10		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	8					10		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	9					9		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	10					no data		n.a.			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	11					4		Mild			Gautheron et al. (1994)
Dimethyl sulfoxide	67-68-5	liquid	100%	n.p.	12					22		Mild			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	1					0		Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	2					3		Not Labeled			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	3					1		Not Labeled			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	4					3		Not Labeled			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	5					1		Not Labeled			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	6					5		Mild			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	7					3		Not Labeled			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	8					1		Not Labeled			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	9					2		Not Labeled			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	10					no data		n.a.			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	11					5		Mild			Gautheron et al. (1994)	
Dimethylbiguanide	657-24-9	solid	20%	n.p.	12					8		Mild			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	1					2		Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	2					1		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	3					1		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	4					1		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	5					0		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	6					-4		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	7					1		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	8					4		Mild			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	9					0		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	10					2		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	11					0		Not Labeled			Gautheron et al. (1994)	
DL-Glutamic acid	19285-83-7	solid	20%	n.p.	12					-1		Not Labeled			Gautheron et al. (1994)	
E		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	196.2	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	1							-1			Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	2							0			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	3							-8			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	4							2			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	5							2			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	6							2			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	7							1			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	8							-6			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	9							1			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	10							-1			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	11							3			Not Labeled			Gautheron et al. (1994)
EDTA, di-potassium salt	25102-12-9	solid	20%	n.p.	12							1			Not Labeled			Gautheron et al. (1994)
EF		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	104.8	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
EG		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	71.8	n.p.	n.p.	Cat I	Cat I	Cat II	AMCP BRD
Ethanol	64-17-5	liquid	100%	n.p.	1	31			2.893			74.4			Severe	Severe	Cat I	Balls et al. (1995)
Ethanol	64-17-5	liquid	100%	n.p.	2	21.3			2.123			53.2			Moderate			Balls et al. (1995)
Ethanol	64-17-5	liquid	100%	n.p.	3	16.3			3.134			63.3			Severe			Balls et al. (1995)
Ethanol	64-17-5	liquid	100%	n.p.	4	36			4.134			98.01			Very severe			Balls et al. (1995)
Ethanol	64-17-5	liquid	100%	n.p.	5	30			2.277			64.2			Severe			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Ethanol	64-17-5	liquid	100%	n.p.	1							58			Severe	Severe	Cat I	Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	2							67			Severe			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	3							70			Severe			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	4							45			Moderate			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	5							60			Severe			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	6							64			Severe			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	7							58			Severe			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	8							51			Moderate			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	9	22.3	6	4.1	1.56	6	0.316	46	6	6.6	Moderate			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	11							104			Severe			Gautheron et al. (1994)
Ethanol	64-17-5	liquid	100%	n.p.	12							45			Moderate			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Ethanol	64-17-5	liquid	100%	n.p.	1 (1)	17.6	3	2.3	1.265	3	0.252	36.6	3	6.0	Moderate	Moderate	Cat II	Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	1 (2)	16.4	3	5.5	1.415	3	0.389	37.6	3	10.8	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	1 (3)	13.7	3	1.5	1.062	3	0.322	29.6	3	6.4	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	1 (4)	12.7	3	1.0	1.933	3	0.397	41.7	3	5.8	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	1 (5)	14.7	3	2.1	1.125	3	0.162	31.5	3	4.5	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	1 (6)	12.7	3	14.9	1.995	3	0.035	42.6			Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	1 (7)	18.7	3	1.5	2.445	3	0.733	55.4			Severe			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	2 (1)	13.3	3	1.0	2.626	3	0.909	52.7	3	12.8	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	2 (2)	17.0	3	2.3	2.504	3	0.703	54.5	3	8.3	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	2 (3)	16.3	3	4.9	3.025	3	0.699	61.7	3	7.8	Severe			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	2 (4)	17.3	3	1.5	2.857	3	0.250	60.2	3	4.9	Severe			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	2 (5)	14.7	3	2.1	2.636	3	0.427	54.2	3	5.0	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	2 (6)	17.6	3	0.6	3.718	3	0.798	73.4			Severe			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	2 (7)	15.0	3	2.6	3.267	3	0.545	64.0			Severe			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	2 (8)	13.0	3	0.6	2.561	3	0.867	51.4			Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	3 (1)	16.6	3	2.1	2.027	3	1.026	47.0	3	14.3	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	3 (2)	18.0	3	2.9	1.831	3	0.061	45.4	3	2.0	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	3 (3)	19.3	3	2.6	1.673	3	0.071	44.4	3	3.0	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	3 (4)	22.0	3	2.6	1.583	3	0.426	45.7	3	8.5	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	3 (5)	18.6	3	1.5	2.395	3	0.380	54.6	3	4.5	Moderate			Southee (1998)
Ethanol	64-17-5	liquid	100%	n.p.	3 (6)	17.0	3	1.2	1.853	3	0.268	44.8	3	5.1	Moderate	Southee (1998)		
Ethanol	64-17-5	liquid	100%	n.p.	3 (7)	19.3	3	3.8	1.527	3	0.344	42.2	3	8.8	Moderate	Southee (1998)		
Ethyl acetate	141-78-6	liquid	100%	99	1	8.7			0.737			19.7			Mild	Moderate	Cat II	Balls et al. (1995)
Ethyl acetate	141-78-6	liquid	100%	99	2	5.7			1.513			28.4			Moderate			Balls et al. (1995)
Ethyl acetate	141-78-6	liquid	100%	99	3	9			2.543			47.1			Moderate			Balls et al. (1995)
Ethyl acetate	141-78-6	liquid	100%	99	4	13.33			2.065			44.31			Moderate			Balls et al. (1995)
Ethyl acetate	141-78-6	liquid	100%	99	5	11			0.64			20.6			Mild			Balls et al. (1995)



***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	1							26			Moderate	Moderate	Cat II	Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	2							38			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	3							31			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	4							33			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	5							21			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	6							29			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	7							28			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	8							38			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	9							26			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	11							38			Moderate			Gautheron et al. (1994)
Ethyl acetoacetate	141-97-9	liquid	100%	n.p.	12							42			Moderate			Gautheron et al. (1994)
Ethyl trimethyl acetate	3938-95-2	liquid	100%	99	1	10.3			1.136			27.4			Moderate	Mild	Cat III	Balls et al. (1995)
Ethyl trimethyl acetate	3938-95-2	liquid	100%	99	2	5			1.916			33.7			Moderate			Balls et al. (1995)
Ethyl trimethyl acetate	3938-95-2	liquid	100%	99	3	1.3			0.609			10.5			Mild			Balls et al. (1995)
Ethyl trimethyl acetate	3938-95-2	liquid	100%	99	4	5.33			0.22			8.633			Mild			Balls et al. (1995)
Ethyl trimethyl acetate	3938-95-2	liquid	100%	99	5	3.6			0.357			9			Mild			Balls et al. (1995)
Ethyl-2-methylacetoacetate	609-14-3	liquid	100%	97	1	26.7			0.052			27.5			Moderate	Mild	Cat III	Balls et al. (1995)
Ethyl-2-methylacetoacetate	609-14-3	liquid	100%	97	2	14.3			-0.014			14.1			Mild			Balls et al. (1995)
Ethyl-2-methylacetoacetate	609-14-3	liquid	100%	97	3	5.7			-0.012			5.5			Mild			Balls et al. (1995)
Ethyl-2-methylacetoacetate	609-14-3	liquid	100%	97	4	5.33			0.014			5.543			Mild			Balls et al. (1995)
Ethyl-2-methylacetoacetate	609-14-3	liquid	100%	97	5	18.7			0.061			19.6			Mild			Balls et al. (1995)
Ethylhexyl acid phosphate ester	-	liquid	100%	n.p.	-	117.3			0.880			130.5			Severe	Severe	Cat I	Bailey et al. (2004)
F		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	360.8	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
Floor Cleaner (#10)	-	liquid	100%	n.p.	-	45.2	5		1.675	5		70.3	5		Severe	Severe	Cat II	Swanson et al. (1995)
Floor Cleaner (#2)	-	liquid	100%	n.p.	-	-2.1	5		0.119	5		-0.3	5		Not Labeled	Not Labeled	Cat III	Swanson et al. (1995)
Floor Stripper (#14)	-	liquid	100%	n.p.	-	122.5	5		2.318	5		157.3	5		Severe	Severe	Cat I	Swanson et al. (1995)
Floor Stripper (#17)	-	liquid	100%	n.p.	-	180.5	5		2.38	5		216.2	5		Severe	Severe	Cat I	Swanson et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Floor Stripper (#18)	-	liquid	100%	n.p.	-	407.1	5		2.481	5		444.3	5		Severe	Severe	Cat I	Swanson et al. (1995)
Fomesafen	72128-02-0	solid	20%	97.5	2	4.3			9.837			151.9			Very severe	Severe	Cat II	Balls et al. (1995)
Fomesafen	72128-02-0	solid	20%	97.5	3	6.3			3.904			64.9			Severe			Balls et al. (1995)
Fomesafen	72128-02-0	solid	20%	97.5	4	13			0.668			23.023			Mild			Balls et al. (1995)
Fomesafen	72128-02-0	solid	20%	97.5	5	5.7			0.834			18.2			Mild			Balls et al. (1995)
Furan	110-00-9	liquid	100%	n.p.	1							73			Severe			
Furan	110-00-9	liquid	100%	n.p.	2							63			Severe		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	3							61			Severe		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	4							65			Severe		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	5							33			Moderate		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	6							34			Moderate		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	7							87			Severe		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	8							48			Moderate		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	9							50			Moderate		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	10							39			Moderate		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	11							68			Severe		Gautheron et al. (1994)	
Furan	110-00-9	liquid	100%	n.p.	12							51			Moderate		Gautheron et al. (1994)	
G		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	139.7	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
gamma-Butyrolactone	96-48-0	liquid	100%	>99	1	37.3			3.553			90.6			Very severe	Severe	Cat II	Balls et al. (1995)
gamma-Butyrolactone	96-48-0	liquid	100%	>99	2	22.7			0.682			32.9			Moderate			Balls et al. (1995)
gamma-Butyrolactone	96-48-0	liquid	100%	>99	3	22			0.63			31.5			Moderate			Balls et al. (1995)
gamma-Butyrolactone	96-48-0	liquid	100%	>99	4	48.67			2.192			81.55			Very severe			Balls et al. (1995)
gamma-Butyrolactone	96-48-0	liquid	100%	>99	5	31.7			2.357			67.1			Severe			Balls et al. (1995)
General Cleaner (#11)	-	liquid	100%	n.p.	-	77.9	5		0.359	5		83.3	5		Severe	Severe	Cat I	Swanson et al. (1995)
General Cleaner (#12)	-	liquid	100%	n.p.	-	95.5	5		1.197	5		113.5	5		Severe	Severe	Cat I	Swanson et al. (1995)
Glass Cleaner (#19)	-	liquid	100%	n.p.	-	98.3	5		2.499	5		135.8	5		Severe	Severe	Cat I	Swanson et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Gluconolactone	90-80-2	solid	20%	n.p.	1							63			Severe	Severe	Cat I	Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	2							81			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	3							90			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	4							62			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	5							108			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	6							66			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	7							90			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	8							57			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	9							88			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	11							75			Severe			Gautheron et al. (1994)
Gluconolactone	90-80-2	solid	20%	n.p.	12							63			Severe			Gautheron et al. (1994)
Glycerol	56-81-5	liquid	100%	>99.5	1	-2			-0.001			-2			Not Labeled	Not Labeled	Cat IV	Balls et al. (1995)
Glycerol	56-81-5	liquid	100%	>99.5	2	-0.7			0.029			-0.2			Not Labeled			Balls et al. (1995)
Glycerol	56-81-5	liquid	100%	>99.5	3	0			0.018			0.3			Not Labeled			Balls et al. (1995)
Glycerol	56-81-5	liquid	100%	>99.5	4	3			0.005			3.08			Mild			Balls et al. (1995)
Glycerol	56-81-5	liquid	100%	>99.5	5	0			0.01			0.1			Not Labeled			Balls et al. (1995)
Glycerol	56-81-5	liquid	100%	>99.5	1 (1)	0.6	3	0.6	-0.005	3	0.002	0.6	3	0.6	Not Labeled	Not Labeled	Not Labeled	Southee (1998)
Glycerol	56-81-5	liquid	100%	>99.5	1 (2)	0.3	3	1.0	-0.003	3	0.002	0.3	3	1.0	Not Labeled			Southee (1998)
Glycerol	56-81-5	liquid	100%	>99.5	2 (1)	0.6	3	0.6	0.012	3	0.007	0.8	3	0.6	Not Labeled			Southee (1998)
Glycerol	56-81-5	liquid	100%	>99.5	2 (2)	0.7	3	0.6	0.008	3	0.009	0.8	3	0.7	Not Labeled			Southee (1998)
Glycerol	56-81-5	liquid	100%	>99.5	3 (1)	1.0	3	0.6	-0.003	3	0.005	1.0	3	0.6	Not Labeled			Southee (1998)
Glycerol	56-81-5	liquid	100%	>99.5	3 (2)	0.7	3	0.0	0.007	3	0.011	0.8	3	0.2	Not Labeled			Southee (1998)
H		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	14	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
Heavy Duty Cleaner (#15)	-	liquid	100%	n.p.	-	323.3	5		2.24	5		357.1	5		Severe	Severe	Cat I	Swanson et al. (1995)
Heavy Duty Cleaner/Degreaser (#9)	-	liquid	100%	n.p.	-	315.4	5		2.619	5		354.7	5		Severe	Severe	Cat I	Swanson et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	1							93			Severe	Moderate	Cat II	Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	2							40			Moderate			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	3							53			Moderate			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	4							33			Moderate			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	5							91			Severe			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	6							42			Moderate			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	7							82			Severe			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	8							76			Severe			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	9							70			Severe			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	11							48			Moderate			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	12							102			Severe			Gautheron et al. (1994)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	1 (1)	13.3	3	2.0	0.654	3	0.273	23.1	3	5.9	Mild	Moderate	Cat II	Southee (1998)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	1 (2)	9.7	3	4.2	0.499	3	0.109	17.2	3	5.8	Mild			Southee (1998)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	2 (1)	13.7	3	3.2	1.398	3	0.601	34.6	3	12.1	Moderate			Southee (1998)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	2 (2)	13.0	3	4.4	1.743	3	0.871	39.1	3	16.4	Moderate			Southee (1998)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	3 (1)	17.3	3	1.0	0.958	3	0.100	31.7	3	2.3	Moderate			Southee (1998)
Hexadecyltrimethylammonium bromide	57-09-0	surfactant	10%	n.p.	3 (2)	17.7	3	2.1	0.818	3	0.607	29.9	3	11.2	Moderate			Southee (1998)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Hexane	110-54-3	liquid	100%	n.p.	1							2			Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	2							2			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	3							2			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	4							0			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	5							2			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	6							1			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	7							3			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	8							1			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	9							1			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	10							-1			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	11							-2			Not Labeled			Gautheron et al. (1994)
Hexane	110-54-3	liquid	100%	n.p.	12							6			Mild			Gautheron et al. (1994)
I		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	0.6	n.p.	n.p.	Not Labeled	Not Labeled	Cat IV	AMCP BRD
Imidazole	288-32-4	solid	20%	99	1	68.3			3.232			116.8			Very severe	Severe	Cat I	Balls et al. (1995)
Imidazole	288-32-4	solid	20%	99	2	93			2.724			133.9			Very severe			Balls et al. (1995)
Imidazole	288-32-4	solid	20%	99	3	62.3			2.741			103.4			Very severe			Balls et al. (1995)
Imidazole	288-32-4	solid	20%	99	4	97.34			1.424			118.7			Very severe			Balls et al. (1995)
Imidazole	288-32-4	solid	20%	99	5	54.3			2.431			90.8			Very severe			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Imidazole	288-32-4	solid	20%	n.p.	1							75			Severe	Severe	Cat I	Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	2							73			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	3							140			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	4							81			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	5							96			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	6							62			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	7							82			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	8							122			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	9							64			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	10							81			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	11							114			Severe			Gautheron et al. (1994)
Imidazole	288-32-4	solid	20%	n.p.	12							65			Severe			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Imidazole	288-32-4	solid	20%	n.p.	1 (1)	91.3	3	2.1	3.379	3	0.106	142.0	3	3.0	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	1 (2)	88.0	3	7.5	3.306	3	0.597	137.6	3	6.8	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	1 (3)	73.7	3	10.1	2.565	3	1.063	112.2	3	24.7	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	1 (4)	86.0	3	9.6	3.006	3	1.078	131.1	3	6.7	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	1 (5)	97.0	3	15.5	3.241	3	0.233	145.6	3	12.0	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	1 (6)	115.3	3	9.1	3.150	3	0.181	162.6	3		Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	1 (7)	70.3	3	4.5	3.681	3	0.691	125.5	3		Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	2 (1)	85.7	3	9.8	3.490	3	0.309	138.1	3	13.0	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	2 (2)	88.0	3	13.0	3.471	3	0.381	140.1	3	11.9	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	2 (3)	86.3	3	6.0	3.240	3	0.651	134.9	3	9.4	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	2 (4)	92.3	3	7.9	4.324	3	1.048	157.2	3	12.5	Very severe	Very Severe	Very Severe	Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	2 (5)	88.0	3	16.7	3.308	3	0.695	137.6	3	6.8	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	2 (6)	97.3	3	12.9	3.709	3	0.866	152.9			Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	2 (7)	100.0	3	9.1	3.316	3	0.183	148.7			Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	3 (1)	83.0	3	14.8	3.774	3	0.828	139.6	3	26.0	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	3 (2)	91.7	3	9.3	3.232	3	0.702	140.1	3	18.9	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	3 (3)	80.4	3	3.1	2.907	3	0.642	124.0	3	6.9	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	3 (4)	82.3	3	2.1	3.093	3	0.635	128.7	3	8.2	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	3 (5)	76.6	3	8.3	3.118	3	0.464	123.4	3	14.8	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	3 (6)	76.3	3	8.7	2.862	3	0.292	121.2	3	4.6	Very severe			Southee (1998)
Imidazole	288-32-4	solid	20%	n.p.	3 (7)	77.3	3	2.0	3.602	3	0.413	131.3	3	8.2	Very severe			Southee (1998)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	SD - Opacity	Mean OD <sub>490</sub>	SD - OD <sub>490</sub>	In Vitro Score	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference	
Iminodibenzyl	494-19-9	solid	20%	n.p.	1					0		Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	2					1		Not Labeled			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	3					6		Mild			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	4					0		Not Labeled			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	5					4		Mild			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	6					0		Not Labeled			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	7					1		Not Labeled			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	8					12		Mild			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	9					0		Not Labeled			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	10					no data		n.a.			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	11					6		Mild			Gautheron et al. (1994)	
Iminodibenzyl	494-19-9	solid	20%	n.p.	12					-4		Not Labeled			Gautheron et al. (1994)	
Isobutanol	78-83-1	liquid	100%	99.9	1	17		2.494		54.4		Moderate	Moderate	Cat II	Balls et al. (1995)	
Isobutanol	78-83-1	liquid	100%	99.9	2	20		3.598		74		Severe			Balls et al. (1995)	
Isobutanol	78-83-1	liquid	100%	99.9	3	19		3.248		67.7		Severe			Balls et al. (1995)	
Isobutanol	78-83-1	liquid	100%	99.9	4	26		1.052		41.78		Moderate			Balls et al. (1995)	
Isobutanol	78-83-1	liquid	100%	99.9	5	21.4		1.39		42.2		Moderate			Balls et al. (1995)	
Isopropanol	67-63-0	liquid	100%	99.9	1	11.7		1.868		39.7		Moderate	Severe	Cat II	Balls et al. (1995)	
Isopropanol	67-63-0	liquid	100%	99.9	2	23.3		2.409		59.5		Severe			Balls et al. (1995)	
Isopropanol	67-63-0	liquid	100%	99.9	3	16		3.755		72.3		Severe			Balls et al. (1995)	
Isopropanol	67-63-0	liquid	100%	99.9	4	30.66		3.189		78.5		Severe			Balls et al. (1995)	
Isopropanol	67-63-0	liquid	100%	99.9	5	18.3		1.4		39.3		Moderate			Balls et al. (1995)	
J		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	7.7	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
K		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	0.3	n.p.	n.p.	Not Labeled	Not Labeled	Cat IV	AMCP BRD
L		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	5.5	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD



***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
L-Aspartic acid	70-47-3	solid	20%	100	1	2			-0.011			1.8			Not Labeled	Not Labeled	Cat IV	Balls et al. (1995)
L-Aspartic acid	70-47-3	solid	20%	100	2	1.7			-0.107			0.1			Not Labeled			Balls et al. (1995)
L-Aspartic acid	70-47-3	solid	20%	100	3	2.7			-0.003			2.6			Not Labeled			Balls et al. (1995)
L-Aspartic acid	70-47-3	solid	20%	100	4	0.33			0.03			0.788			Not Labeled			Balls et al. (1995)
L-Aspartic acid	70-47-3	solid	20%	100	5	0			0.082			1.2			Not Labeled			Balls et al. (1995)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	1							81			Severe	Severe	Cat I	Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	2							82			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	3							103			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	4							76			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	5							92			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	6							68			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	7							90			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	8							62			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	9							102			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	11							76			Severe			Gautheron et al. (1994)
Laurylsulfobetaine	14933-08-5	surfactant	10%	n.p.	12							55			Moderate			Gautheron et al. (1994)
M		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	55.7	n.p.	n.p.	Cat I	Cat I	Cat II	AMCP BRD

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Magnesium carbonate	56378-72-4	solid	20%	n.p.	1							3			Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	2							6			Mild			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	3							3			Not Labeled			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	4							3			Not Labeled			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	5							0			Not Labeled			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	6							1			Not Labeled			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	7							7			Mild			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	8							3			Not Labeled			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	9							1			Not Labeled			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	11							0			Not Labeled			Gautheron et al. (1994)
Magnesium carbonate	56378-72-4	solid	20%	n.p.	12							6			Mild			Gautheron et al. (1994)
Maneb	12427-38-2	solid	20%	90	2	17			-0.008			16.9			Mild	Mild	Cat II	Balls et al. (1995)
Maneb	12427-38-2	solid	20%	90	3	21			-0.002			21			Mild			Balls et al. (1995)
Maneb	12427-38-2	solid	20%	90	4	56.33			0.495			63.76			Severe			Balls et al. (1995)
Maneb	12427-38-2	solid	20%	90	5	33.3			0.029			33.8			Moderate			Balls et al. (1995)
Meat Room Degreaser (#3)	-	liquid	100%	n.p.	-	99.3	5		2.733	5		140.3	5		Severe	Severe	Cat I	Swanson et al. (1995)
Metal Cleaner (#20)	-	liquid	100%	n.p.	-	344.2	5		3.182	5		391.9	5		Severe	Severe	Cat I	Swanson et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Methanol	67-56-1	liquid	100%	n.p.	1					88		Severe	Severe	Cat I	Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	2					88		Severe			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	3					54		Moderate			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	4					71		Severe			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	5					81		Severe			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	6					108		Severe			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	7					37		Moderate			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	8					19		Mild			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	9					99		Severe			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	10					no data		n.a.			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	11					179		Severe			Gautheron et al. (1994)
Methanol	67-56-1	liquid	100%	n.p.	12					102		Severe			Gautheron et al. (1994)
Methyl acetate	79-20-9	liquid	100%	98	1	51.6		1.301		71.2		Severe	Moderate	Cat II	Balls et al. (1995)
Methyl acetate	79-20-9	liquid	100%	98	2	42		0.299		46.5		Moderate			Balls et al. (1995)
Methyl acetate	79-20-9	liquid	100%	98	3	38.3		0.887		51.6		Moderate			Balls et al. (1995)
Methyl acetate	79-20-9	liquid	100%	98	4	43.1		0.72		53.9		Moderate			Balls et al. (1995)
Methyl acetate	79-20-9	liquid	100%	98	5	45.3		0.384		51.1		Moderate			Balls et al. (1995)
Methyl cyanoacetate	105-34-0	liquid	100%	99	1	16.3		0.002		16.3		Mild	Mild	Cat III	Balls et al. (1995)
Methyl cyanoacetate	105-34-0	liquid	100%	99	2	6.7		-0.052		5.9		Mild			Balls et al. (1995)
Methyl cyanoacetate	105-34-0	liquid	100%	99	3	10.3		-0.015		10.1		Mild			Balls et al. (1995)
Methyl cyanoacetate	105-34-0	liquid	100%	99	4	17.33		0.013		17.53		Mild			Balls et al. (1995)
Methyl cyanoacetate	105-34-0	liquid	100%	99	5	11		-0.003		11		Mild			Balls et al. (1995)
Methyl cyclopentadiene dimer	-	liquid	100%	n.p.	-	0.7		0.001		0.7		Not Labeled	Not Labeled	Cat IV	Bailey et al. (2004)
Methyl ethyl ketone	78-93-3	liquid	100%	99	1	68		1.665		93		Very severe	Severe	Cat II	Balls et al. (1995)
Methyl ethyl ketone	78-93-3	liquid	100%	99	2	51.3		1.069		67.4		Severe			Balls et al. (1995)
Methyl ethyl ketone	78-93-3	liquid	100%	99	3	34		1.212		52.2		Moderate			Balls et al. (1995)
Methyl ethyl ketone	78-93-3	liquid	100%	99	4	58		1.38		78.71		Severe			Balls et al. (1995)
Methyl ethyl ketone	78-93-3	liquid	100%	99	5	51.7		0.607		60.8		Severe			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Methyl ethyl ketone	78-93-3	liquid	100%	99	1 (1)	47.6	3	5.9	1.706	3	0.679	73.3	3	15.9	Severe	Severe	Cat II	Southee (1998)
Methyl ethyl ketone	78-93-3	liquid	100%	99	1 (2)	48	3	2.1	1.32	3	0.303	67.8	3	5.7	Severe			Southee (1998)
Methyl ethyl ketone	78-93-3	liquid	100%	99	2 (1)	61	3	2.9	3.183	3	0.86	108.7	3	11.9	Very severe			Southee (1998)
Methyl ethyl ketone	78-93-3	liquid	100%	99	2 (2)	62	3	6.7	2.648	3	1.074	101.7	3	21.1	Very severe			Southee (1998)
Methyl ethyl ketone	78-93-3	liquid	100%	99	3 (1)	55.7	3	5.0	0.972	3	0.479	70.2	3	3.5	Severe			Southee (1998)
Methyl ethyl ketone	78-93-3	liquid	100%	99	3 (2)	54.4	3	1.5	1.278	3	0.359	73.5	3	6.4	Severe			Southee (1998)
Methyl isobutyl ketone	108-10-1	liquid	100%	98	1	4.7			0.273			8.8			Mild	Mild	Cat III	Balls et al. (1995)
Methyl isobutyl ketone	108-10-1	liquid	100%	98	2	8.7			0.759			20.1			Mild			Balls et al. (1995)
Methyl isobutyl ketone	108-10-1	liquid	100%	98	3	5.7			0.307			10.3			Mild			Balls et al. (1995)
Methyl isobutyl ketone	108-10-1	liquid	100%	98	4	8			0.35			13.25			Mild			Balls et al. (1995)
Methyl isobutyl ketone	108-10-1	liquid	100%	98	5	5.7			0.305			10.3			Mild			Balls et al. (1995)
Methylcyclopentane	96-37-7	liquid	100%	>99	1	1.3			0.169			3.8			Mild			Not Labeled
Methylcyclopentane	96-37-7	liquid	100%	>99	2	2.3			0.152			4.6			Mild	Balls et al. (1995)		
Methylcyclopentane	96-37-7	liquid	100%	>99	3	0.3			0.071			1.4			Not Labeled	Balls et al. (1995)		
Methylcyclopentane	96-37-7	liquid	100%	>99	4	1			0.047			1.71			Not Labeled	Balls et al. (1995)		
Methylcyclopentane	96-37-7	liquid	100%	>99	5	0.3			0.161			2.7			Not Labeled	Balls et al. (1995)		
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	1							22			Mild	Mild		
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	2							25			Mild			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	3							27			Moderate			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	4							19			Mild			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	5							21			Mild			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	6							23			Mild			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	7							16			Mild			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	8							16			Mild			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	9							19			Mild			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	11							20			Mild			Gautheron et al. (1994)
Methylisobutyl ketone	108-10-1	liquid	100%	n.p.	12							11			Mild			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
MYRJ-45	-	surfactant	10%	n.p.	1							2			Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	2							1			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	3							0			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	4							1			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	5							0			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	6							0			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	7							1			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	8							-4			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	9							1			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	11							-3			Not Labeled			Gautheron et al. (1994)
MYRJ-45	-	surfactant	10%	n.p.	12							-1			Not Labeled			Gautheron et al. (1994)
N		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	152.7	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
n-Hexanol	111-27-3	liquid	100%	98	1	17.7			3.591			71.5			Severe	Severe/Very Severe	Cat II	Balls et al. (1995)
n-Hexanol	111-27-3	liquid	100%	98	2	16			4.509			83.6			Very severe			Balls et al. (1995)
n-Hexanol	111-27-3	liquid	100%	98	3	7			3.746			63.2			Severe			Balls et al. (1995)
n-Hexanol	111-27-3	liquid	100%	98	4	15.33			2.191			48.19			Moderate			Balls et al. (1995)
n-Hexanol	111-27-3	liquid	100%	98	5	10.7			2.145			42.9			Moderate			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	1							53			Moderate	Moderate	Cat II	Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	2							50			Moderate			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	3							48			Moderate			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	4							28			Moderate			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	5							45			Moderate			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	6							35			Moderate			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	7							48			Moderate			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	8							43			Moderate			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	9							63			Severe			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	11							89			Severe			Gautheron et al. (1994)
N-Lauroylsarcosine, sodium salt	7631-98-3	surfactant	10%	n.p.	12							48			Moderate			Gautheron et al. (1994)
n-Octanol	111-87-5	liquid	100%	>99	1	11			2.159			43.4			Moderate	Moderate	Cat II	Balls et al. (1995)
n-Octanol	111-87-5	liquid	100%	>99	2	13			4.392			78.9			Severe			Balls et al. (1995)
n-Octanol	111-87-5	liquid	100%	>99	3	10			1.984			39.8			Moderate			Balls et al. (1995)
n-Octanol	111-87-5	liquid	100%	>99	4	6			0.569			14.54			Mild			Balls et al. (1995)
n-Octanol	111-87-5	liquid	100%	>99	5	6			1.464			28			Moderate			Balls et al. (1995)
O		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	7.2	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Octanol	111-87-5	liquid	100%	n.p.	1							65			Severe	Moderate	Cat II	Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	2							33			Moderate			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	3							42			Moderate			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	4							49			Moderate			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	5							66			Severe			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	6							48			Moderate			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	7							37			Moderate			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	8							25			Mild			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	9							61			Severe			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	11							31			Moderate			Gautheron et al. (1994)
Octanol	111-87-5	liquid	100%	n.p.	12							64			Severe			Gautheron et al. (1994)
P		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	1.1	n.p.	n.p.	Not Labeled	Not Labeled	Cat IV	AMCP BRD
Parafluoriline	371-40-4	liquid	100%	99	1	17.3			0.809			29.5			Moderate	Moderate	Cat II	Balls et al. (1995)
Parafluoriline	371-40-4	liquid	100%	99	2	11.3			1.006			26.4			Moderate			Balls et al. (1995)
Parafluoriline	371-40-4	liquid	100%	99	3	18.7			1.474			40.8			Moderate			Balls et al. (1995)
Parafluoriline	371-40-4	liquid	100%	99	4	18			0.8996			31.82			Moderate			Balls et al. (1995)
Parafluoriline	371-40-4	liquid	100%	99	5	13.3			0.679			23.5			Moderate			Balls et al. (1995)
Parafluoriline	371-40-4	liquid	100%	99	1 (1)	15.3	3	1.0	1.044	3	0.413	31	3	7.2	Moderate	Moderate	Cat II	Southee (1998)
Parafluoriline	371-40-4	liquid	100%	99	1 (2)	16.3	3	3.5	1.243	3	0.287	35	3	6.2	Moderate			Southee (1998)
Parafluoriline	371-40-4	liquid	100%	99	2 (1)	13.3	3	2.1	1.663	3	0.372	38.3	3	7.5	Moderate			Southee (1998)
Parafluoriline	371-40-4	liquid	100%	99	2 (2)	16.0	3	4.6	1.432	3	0.531	37.5	3	12.2	Moderate			Southee (1998)
Parafluoriline	371-40-4	liquid	100%	99	3 (1)	11.0	3	1.0	0.738	3	0.154	22.1	3	2.7	Mild			Southee (1998)
Parafluoriline	371-40-4	liquid	100%	99	3 (2)	15.4	3	1.2	0.7	3	0.151	28.9	3	3.4	Moderate			Southee (1998)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Petroleum ether	8032-32-4	liquid	100%	n.p.	1					8		Mild	Mild	Cat IV	Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	2					13		Mild			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	3					11		Mild			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	4					1		Not Labeled			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	5					2		Not Labeled			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	6					5		Mild			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	7					7		Mild			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	8					0		Not Labeled			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	9					2		Not Labeled			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	10					3		Not Labeled			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	11					5		Mild			Gautheron et al. (1994)
Petroleum ether	8032-32-4	liquid	100%	n.p.	12					9		Mild			Gautheron et al. (1994)
Petroleum wax	-	solid	100%	n.p.	-	0.3		-0.001		0.3		Not Labeled	Not Labeled	Cat IV	Bailey et al. (2004)
Phenylbutazone	50-33-9	solid	20%	n.p.	1					0		Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	2					1		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	3					1		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	4					0		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	5					0		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	6					1		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	7					0		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	8					-6		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	9					1		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	10					1		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	11					-3		Not Labeled			Gautheron et al. (1994)
Phenylbutazone	50-33-9	solid	20%	n.p.	12					2		Not Labeled			Gautheron et al. (1994)
Polyalkenylsuccinate ester/amine salt	-	liquid	100%	n.p.	-	2.3		0.000		2.3		Not Labeled	Not Labeled	Cat IV	Bailey et al. (2004)



***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Polyethylene glycol 400	25322-68-3	liquid	100%	n.p.	1	0.3			0.019			0.6			Not Labeled	Not Labeled	Cat IV	Balls et al. (1995)
Polyethylene glycol 400	25322-68-3	liquid	100%	n.p.	2	2			0.036			2.5			Not Labeled			Balls et al. (1995)
Polyethylene glycol 400	25322-68-3	liquid	100%	n.p.	3	-1.7			0.021			-1.3			Not Labeled			Balls et al. (1995)
Polyethylene glycol 400	25322-68-3	liquid	100%	n.p.	4	1			0.005			1.08			Not Labeled			Balls et al. (1995)
Polyethylene glycol 400	25322-68-3	liquid	100%	n.p.	5	2.7			0.01			2.8			Not Labeled			Balls et al. (1995)
Pot and Pan Cleaner (#8)	-	liquid	100%	n.p.	-	-1.8	5		0.078	5		-0.6	5		Not Labeled	Not Labeled	Cat IV	Swanson et al. (1995)
Potassium cyanate	590-28-3	solid	20%	97	1	8.7			0.499			16.2			Mild	Mild	Cat III	Balls et al. (1995)
Potassium cyanate	590-28-3	solid	20%	97	2	11			0.793			22.9			Mild			Balls et al. (1995)
Potassium cyanate	590-28-3	solid	20%	97	3	8.3			0.248			12			Mild			Balls et al. (1995)
Potassium cyanate	590-28-3	solid	20%	97	4	7			0.692			17.38			Mild			Balls et al. (1995)
Potassium cyanate	590-28-3	solid	20%	97	5	3			0.234			6.5			Mild			Balls et al. (1995)
Process oil	-	liquid	100%	n.p.	-	2.7			0.004			2.7			Not Labeled	Not Labeled	Cat IV	Bailey et al. (2004)
Promethazine hydrochloride	58-33-3	solid	20%	98	1	120.7			-0.022			120.3			Very severe	Severe	Cat I	Balls et al. (1995)
Promethazine hydrochloride	58-33-3	solid	20%	98	2	87.7			-0.234			84.2			Very severe			Balls et al. (1995)
Promethazine hydrochloride	58-33-3	solid	20%	98	3	125			0.044			125.7			Very severe			Balls et al. (1995)
Promethazine hydrochloride	58-33-3	solid	20%	98	4	121.33			0.051			123.09			Very severe			Balls et al. (1995)
Promethazine hydrochloride	58-33-3	solid	20%	98	5	153.7			0.011			153.8			Very severe			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	1							117			Severe	Severe	Cat I	Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	2							156			Severe			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	3							109			Severe			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	4							111			Severe			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	5							164			Severe			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	6							174			Severe			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	7							103			Severe			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	8							50			Moderate			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	9							139			Severe			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	11							94			Severe			Gautheron et al. (1994)
Promethazine hydrochloride	58-33-3	solid	20%	n.p.	12							19			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	1							7			Mild	Mild	Cat III	Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	2							7			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	3							14			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	4							4			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	5							6			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	6							9			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	7							6			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	8							11			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	9							6			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	11							12			Mild			Gautheron et al. (1994)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	n.p.	12							5			Mild			Gautheron et al. (1994)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	100	1 (1)	10.7	3	2.6	0.034	3	0.044	11.2	3	3.2	Mild	Mild	Cat III	Southee (1998)
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	100	1 (2)	7.0	3	0.6	0.023	3	0.026	7.4	3	0.6	Mild			
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	100	2 (1)	5.0	3	1.7	0.013	3	0.012	5.2	3	1.9	Mild			
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	100	2 (2)	3.4	3	1.5	0.016	3	0.015	3.6	3	1.6	Mild			
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	100	3 (1)	7.3	3	4.4	0.028	3	0.014	7.7	3	4.2	Mild			
Propyl-4-hydroxybenzoate	94-13-3	solid	20%	100	3 (2)	5.6	3	0.6	0.04	3	0.051	6.2	3	0.7	Mild			
Pyridine	110-86-1	liquid	100%	>99.9	1	73.7			4.468			140.7			Very severe	Severe	Cat I	Balls et al. (1995)
Pyridine	110-86-1	liquid	100%	>99.9	2	83.7			4.117			145.4			Very severe			Balls et al. (1995)
Pyridine	110-86-1	liquid	100%	>99.9	3	61			4.763			132.4			Very severe			Balls et al. (1995)
Pyridine	110-86-1	liquid	100%	>99.9	4	87.33			7.445			199.02			Very severe			Balls et al. (1995)
Pyridine	110-86-1	liquid	100%	>99.9	5	74.7			3.204			122.7			Very severe			Balls et al. (1995)
Pyridine	110-86-1	liquid	100%	n.p.	1							102			Severe	Severe	Cat I	Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	2							123			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	3							186			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	4							79			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	5							102			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	6							77			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	7							124			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	8							132			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	9							105			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	11							96			Severe			Gautheron et al. (1994)
Pyridine	110-86-1	liquid	100%	n.p.	12							115			Severe			Gautheron et al. (1994)
Q		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	13.5	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference	
Quinacrine	69-05-6	solid	20%	n.p.	1	1		-0.047		0.3		Not Labeled	Mild	Cat III	Balls et al. (1995)	
Quinacrine	69-05-6	solid	20%	n.p.	2	0.3		0.002		0.4		Not Labeled			Balls et al. (1995)	
Quinacrine	69-05-6	solid	20%	n.p.	3	1.7		0.028		2.1		Not Labeled			Balls et al. (1995)	
Quinacrine	69-05-6	solid	20%	n.p.	4	2.34		-0.033		1.85		Not Labeled			Balls et al. (1995)	
Quinacrine	69-05-6	solid	20%	n.p.	5	2		0.07		3.1		Mild			Balls et al. (1995)	
Quinacrine	69-05-6	solid	20%	n.p.	1					17		Mild	Moderate	Cat III	Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	2					29		Moderate			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	3					8		Mild			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	4					46		Moderate			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	5					52		Moderate			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	6					24		Mild			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	7					15		Moderate			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	8					18		Moderate			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	9					58		Severe			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	10					no data		n.a.			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	11					3		Not Labeled			Gautheron et al. (1994)	
Quinacrine	69-05-6	solid	20%	n.p.	12					72		Severe			Gautheron et al. (1994)	
R		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	0.2	n.p.	n.p.	Not Labeled	Not Labeled	Cat IV	AMCP BRD
S		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	18.8	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
Sodium hydroxide (1%)	1310-73-2	liquid	1%	reagent grade	1	100.3		4.471		167.4		Very severe	Very Severe	Cat I	Balls et al. (1995)	
Sodium hydroxide (1%)	1310-73-2	liquid	1%	reagent grade	2	80.7		3.504		133.2		Very severe			Balls et al. (1995)	
Sodium hydroxide (1%)	1310-73-2	liquid	1%	reagent grade	3	88.7		3.856		146.5		Very severe			Balls et al. (1995)	
Sodium hydroxide (1%)	1310-73-2	liquid	1%	reagent grade	4	116.66		3.628		171.08		Very severe			Balls et al. (1995)	
Sodium hydroxide (1%)	1310-73-2	liquid	1%	reagent grade	5	88		2.888		132.3		Very severe			Balls et al. (1995)	

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Sodium hydroxide (10%)	1310-73-2	liquid	10%	reagent grade	1	232.3			3.53			285.2			Very severe	Severe	Cat I	Balls et al. (1995)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	reagent grade	2	173.3			3.382			224.1			Very severe			Balls et al. (1995)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	reagent grade	3	197			3.849			254.7			Very severe			Balls et al. (1995)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	reagent grade	4	283			4.329			348.27			Very severe			Balls et al. (1995)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	reagent grade	5	197.3			3.321			247.2			Very severe			Balls et al. (1995)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	n.p.	1 (1)	176.7	3	31.4	4.551	3	1.019	245.0	3	28.7	Very severe	Very Severe	Cat I	Southee (1998)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	n.p.	1 (2)	172.0	3	1.7	3.676	3	0.201	227.1	3	3.4	Very severe			Southee (1998)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	n.p.	2 (1)	170.0	3	20.7	4.755	3	0.586	241.3	3	11.9	Very severe			Southee (1998)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	n.p.	2 (2)	166.7	3	12.6	4.590	3	0.405	235.5	3	7.3	Very severe			Southee (1998)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	n.p.	3 (1)	124.0	3	13.7	4.604	3	0.380	193.1	3	19.0	Very severe			Southee (1998)
Sodium hydroxide (10%)	1310-73-2	liquid	10%	n.p.	3 (2)	165.3	3	21.2	3.303	3	0.388	214.9	3	15.5	Very severe			Southee (1998)
Sodium lauryl sulfate (15 %)	151-21-3	liquid	15%	98	1	4			2.884			47.3			Moderate	Mild	Cat II	Balls et al. (1995)
Sodium lauryl sulfate (15 %)	151-21-3	liquid	15%	98	2	6			5.801			93			Very severe			Balls et al. (1995)
Sodium lauryl sulfate (15 %)	151-21-3	liquid	15%	98	3	3.3			3.988			63.2			Severe			Balls et al. (1995)
Sodium lauryl sulfate (15 %)	151-21-3	liquid	15%	98	4	1.66			3.862			59.61			Severe			Balls et al. (1995)
Sodium lauryl sulfate (15 %)	151-21-3	liquid	15%	98	5	7.7			3.042			53.3			Moderate			Balls et al. (1995)
Sodium lauryl sulfate (15%)	151-21-3	liquid	15%	98	1 (1)	-0.8	3	0.0	0.408	3	0.024	5.4	3	0.4	Mild	Mild	Cat III	Southee (1998)
Sodium lauryl sulfate (15%)	151-21-3	liquid	15%	98	1 (2)	0.0	3	0.6	0.348	3	0.182	5.2	3	2.7	Mild			Southee (1998)
Sodium lauryl sulfate (15%)	151-21-3	liquid	15%	98	2 (1)	0.7	3	1.0	1.012	3	0.461	15.9	3	7.6	Mild			Southee (1998)
Sodium lauryl sulfate (15%)	151-21-3	liquid	15%	98	2 (2)	1.0	3	0.6	1.086	3	0.083	17.3	3	1.7	Mild			Southee (1998)
Sodium lauryl sulfate (15%)	151-21-3	liquid	15%	98	3 (1)	0.7	3	0.6	0.518	3	0.11	8.7	3	1.4	Mild			Southee (1998)
Sodium lauryl sulfate (15%)	151-21-3	liquid	15%	98	3 (2)	1.3	3	0.6	0.283	3	0.064	5.6	3	1.5	Mild			Southee (1998)
Sodium lauryl sulfate (3 %)	151-21-3	liquid	3%	98	1	12.3			1.29			31.7			Moderate	Moderate	Cat II	Balls et al. (1995)
Sodium lauryl sulfate (3 %)	151-21-3	liquid	3%	98	2	3.3			1.892			31.7			Moderate			Balls et al. (1995)
Sodium lauryl sulfate (3 %)	151-21-3	liquid	3%	98	3	0.3			1.801			27.3			Moderate			Balls et al. (1995)
Sodium lauryl sulfate (3 %)	151-21-3	liquid	3%	98	4	6			1.348			26.22			Moderate			Balls et al. (1995)
Sodium lauryl sulfate (3 %)	151-21-3	liquid	3%	98	5	0			0.82			12.3			Mild			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference			
Sodium oxalate	62-76-0	solid	20%	>99	1	1.3		0.054		2.1		Not Labeled	Mild	Cat III	Balls et al. (1995)			
Sodium oxalate	62-76-0	solid	20%	>99	2	6.7		0.059		7.6		Mild			Balls et al. (1995)			
Sodium oxalate	62-76-0	solid	20%	>99	3	3		0.187		5.8		Mild			Balls et al. (1995)			
Sodium oxalate	62-76-0	solid	20%	>99	4	43		0.556		49.59		Moderate			Balls et al. (1995)			
Sodium oxalate	62-76-0	solid	20%	>99	5	4		0.081		4.9		Mild			Balls et al. (1995)			
Sodium oxalate	62-76-0	solid	20%	n.p.	1					2		Not Labeled	Mild	Cat III	Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	2					2		Not Labeled			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	3					9		Mild			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	4					5		Mild			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	5					3		Not Labeled			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	6					2		Not Labeled			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	7					4		Mild			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	8					3		Not Labeled			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	9					3		Not Labeled			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	10					9		Mild			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	11					11		Mild			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	n.p.	12					4		Mild			Gautheron et al. (1994)			
Sodium oxalate	62-76-0	solid	20%	99	1 (1)	8.4	3	1.2	0.128	3	0.16	10.3	3	1.4	Mild	Mild	Cat III	Southee (1998)
Sodium oxalate	62-76-0	solid	20%	99	1 (2)	3.4	3	0.6	0.071	3	0.03	4.4	3	1.0	Mild			Southee (1998)
Sodium oxalate	62-76-0	solid	20%	99	2 (1)	-1.0	3	1.7	0.05	3	0.054	-0.3	3	1.5	Not Labeled			Southee (1998)
Sodium oxalate	62-76-0	solid	20%	99	2 (2)	-1.0	3	2.1	0.055	3	0.012	-0.1	3	2.1	Not Labeled			Southee (1998)
Sodium oxalate	62-76-0	solid	20%	99	3 (1)	2.0	3	0.6	0.051	3	0.032	2.7	3	0.9	Not Labeled			Southee (1998)
Sodium oxalate	62-76-0	solid	20%	99	3 (2)	2.3	3	1.0	0.15	3	0.022	4.5	3	1.3	Mild			Southee (1998)
Sodium perborate	10486-00-7	solid	20%	98.6	1	10		8.908		143.6		Very severe	Very Severe	Cat I	Balls et al. (1995)			
Sodium perborate	10486-00-7	solid	20%	98.6	2	13.7		6.982		118.4		Very severe			Balls et al. (1995)			
Sodium perborate	10486-00-7	solid	20%	98.6	3	10		5.749		96.2		Very severe			Balls et al. (1995)			
Sodium perborate	10486-00-7	solid	20%	98.6	4	11		3.568		64.531		Severe			Balls et al. (1995)			
Sodium perborate	10486-00-7	solid	20%	98.6	5	9.7		3.547		62.9		Severe			Balls et al. (1995)			

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	SD - Opacity	Mean OD <sub>490</sub>	SD - OD <sub>490</sub>	In Vitro Score	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
T		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	1.8	n.p.	Not Labeled	Not Labeled	Cat IV	AMCP BRD
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	97	1	24		-0.023		23.6		Mild	Mild	Cat III	Balls et al. (1995)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	97	2	8.3		-0.027		7.9		Mild			Balls et al. (1995)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	97	3	14.3		-0.008		14.2		Mild			Balls et al. (1995)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	97	4	21.33		-0.045		20.65		Mild			Balls et al. (1995)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	97	5	6		0.19		8.9		Mild			Balls et al. (1995)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	1					5		Mild	Mild	Cat III	Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	2					1		Not Labeled			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	3					2		Not Labeled			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	4					6		Mild			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	5					0		Not Labeled			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	6					4		Mild			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	7					2		Not Labeled			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	8					19		Mild			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	9					3		Not Labeled			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	10					no data		n.a.			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	11					18		Mild			Gautheron et al. (1994)
Tetraaminopyrimidine sulfate	5392-28-9	solid	20%	n.p.	12					6		Mild			Gautheron et al. (1994)
Thiadiazole alkyl derivative	-	liquid	100%	n.p.	-	7.3		0.237		10.9		Moderate	Moderate	Cat III	Bailey et al. (2004)
Thiourea	62-56-6	solid	20%	>99	1	88		4.095		149.4		Very severe	Severe	Cat I	Balls et al. (1995)
Thiourea	62-56-6	solid	20%	>99	2	106.3		2.19		139.2		Very severe			Balls et al. (1995)
Thiourea	62-56-6	solid	20%	>99	3	82		3.572		135.6		Very severe			Balls et al. (1995)
Thiourea	62-56-6	solid	20%	>99	4	81.01		3.76		137.44		Very severe			Balls et al. (1995)
Thiourea	62-56-6	solid	20%	>99	5	74		1.671		99.1		Very severe			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Thiourea	62-56-6	solid	20%	n.p.	1							146			Severe	Severe	Cat I	Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	2							175			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	3							169			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	4							152			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	5							140			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	6							120			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	7							129			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	8							173			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	9							151			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	11							203			Severe			Gautheron et al. (1994)
Thiourea	62-56-6	solid	20%	n.p.	12							104			Severe			Gautheron et al. (1994)
Toilet Bowl Cleaner (#1)	-	liquid	100%	n.p.	-	8.700	5		0.323	5		13.5	5		Mild	Mild	Cat III	Swanson et al. (1995)
Toilet Bowl Cleaner (#4)	-	liquid	100%	n.p.	-	10.5	5		0.303	5		15	5		Mild	Mild	Cat III	Swanson et al. (1995)
Toluene	108-88-3	liquid	100%	99	1	9.3			2.26			43.3			Moderate	Moderate	Cat II	Balls et al. (1995)
Toluene	108-88-3	liquid	100%	99	2	6			1.813			33.2			Moderate			Balls et al. (1995)
Toluene	108-88-3	liquid	100%	99	3	5.3			2.122			37.2			Moderate			Balls et al. (1995)
Toluene	108-88-3	liquid	100%	99	4	2			2.427			38.41			Moderate			Balls et al. (1995)
Toluene	108-88-3	liquid	100%	99	5	4			1.473			26.1			Moderate			Balls et al. (1995)
Trichloroacetic acid (3%)	76-03-9	liquid	3%	reagent grade	1	79.3			0.173			81.9			Very severe	Severe/Very Severe	Cat I	Balls et al. (1995)
Trichloroacetic acid (3%)	76-03-9	liquid	3%	reagent grade	2	49			0.053			49.8			Moderate			Balls et al. (1995)
Trichloroacetic acid (3%)	76-03-9	liquid	3%	reagent grade	3	73.7			0.111			75.3			Severe			Balls et al. (1995)
Trichloroacetic acid (3%)	76-03-9	liquid	3%	reagent grade	4	92.33			0.042			92.97			Very severe			Balls et al. (1995)
Trichloroacetic acid (3%)	76-03-9	liquid	3%	reagent grade	5	78.4			0.067			79.3			Severe			Balls et al. (1995)



***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity <sup>n</sup>	SD - Opacity	Mean OD <sub>490</sub> <sup>n</sup>	SD - OD <sub>490</sub>	In Vitro Score <sup>n</sup>	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Trichloroacetic acid (30%)	76-03-9	liquid	30%	reagent grade	1	228		2.93		272		Very severe	Very Severe	Cat I	Balls et al. (1995)
Trichloroacetic acid (30%)	76-03-9	liquid	30%	reagent grade	2	154.7		4.687		225		Very severe			Balls et al. (1995)
Trichloroacetic acid (30%)	76-03-9	liquid	30%	reagent grade	3	245.3		3.44		296.9		Very severe			Balls et al. (1995)
Trichloroacetic acid (30%)	76-03-9	liquid	30%	reagent grade	4	277		3.072		323.08		Very severe			Balls et al. (1995)
Trichloroacetic acid (30%)	76-03-9	liquid	30%	reagent grade	5	157		3.115		203.7		Very severe			Balls et al. (1995)
Triethanolamine	102-71-6	liquid	100%	n.p.	1					2		Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	2					4		Mild			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	3					0		Not Labeled			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	4					0		Not Labeled			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	5					-1		Not Labeled			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	6					1		Not Labeled			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	7					1		Not Labeled			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	8					3		Not Labeled			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	9					3		Not Labeled			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	10					no data		n.a.			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	11					5		Mild			Gautheron et al. (1994)
Triethanolamine	102-71-6	liquid	100%	n.p.	12					6		Mild			Gautheron et al. (1994)
Triton X-100 (10%)	9002-93-1	liquid	10%	98	1	6		5.312		85.7		Very severe	Severe/Very Severe	Cat I	Balls et al. (1995)
Triton X-100 (10%)	9002-93-1	liquid	10%	98	2	6.7		4.624		76		Severe			Balls et al. (1995)
Triton X-100 (10%)	9002-93-1	liquid	10%	98	3	6		5.337		86.1		Very severe			Balls et al. (1995)
Triton X-100 (10%)	9002-93-1	liquid	10%	98	4	3.33		3.617		57.58		Severe			Balls et al. (1995)
Triton X-100 (10%)	9002-93-1	liquid	10%	98	5	7.7		2.567		46.2		Moderate			Balls et al. (1995)
Triton X-100 (5 %)	9002-93-1	liquid	5%	98	1	5.3		4.6		74.3		Severe	Severe	Cat I	Balls et al. (1995)
Triton X-100 (5 %)	9002-93-1	liquid	5%	98	2	8.3		6.553		106.6		Very severe			Balls et al. (1995)
Triton X-100 (5 %)	9002-93-1	liquid	5%	98	3	3.7		5.099		80.2		Very severe			Balls et al. (1995)
Triton X-100 (5 %)	9002-93-1	liquid	5%	98	4	5		4.79		76.79		Very severe			Balls et al. (1995)
Triton X-100 (5 %)	9002-93-1	liquid	5%	98	5	7.7		3.06		53.6		Moderate			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe ≥ 55.1 <sup>2</sup>	In Vitro Consensus Classification Severe ≥ 75 <sup>2</sup>	Reference
Triton X-100 (5%)	9002-93-1	liquid	5%	98	1 (1)	3.3	3	1.0	0.023	3	0.004	3.7	3	1.1	Mild	Mild	Cat III	Southee (1998)
Triton X-100 (5%)	9002-93-1	liquid	5%	98	1 (2)	1.3	3	1.0	0.035	3	0.006	1.8	3	1.0	Not Labeled			Southee (1998)
Triton X-100 (5%)	9002-93-1	liquid	5%	98	2 (1)	1.4	3	0.6	0.298	3	0.123	5.8	3	2.4	Mild			Southee (1998)
Triton X-100 (5%)	9002-93-1	liquid	5%	98	2 (2)	0.0	3	0.6	0.226	3	0.086	3.4	3	1.0	Mild			Southee (1998)
Triton X-100 (5%)	9002-93-1	liquid	5%	98	3 (1)	2.7	3	1.0	0.023	3	0.009	3.0	3	1.1	Not Labeled			Southee (1998)
Triton X-100 (5%)	9002-93-1	liquid	5%	98	3 (2)	1.4	3	0.6	0.038	3	0.013	1.9	3	0.6	Not Labeled			Southee (1998)
Triton X-155	9010-44-0	surfactant	10%	n.p.	1							-1			Not Labeled	Not Labeled	Cat IV	Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	2							1			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	3							-1			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	4							0			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	5							2			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	6							2			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	7							0			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	8							2			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	9							3			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	10							no data			n.a.			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	11							-2			Not Labeled			Gautheron et al. (1994)
Triton X-155	9010-44-0	surfactant	10%	n.p.	12							0			Not Labeled			Gautheron et al. (1994)
Tween 20	9005-64-5	liquid	n.p.	98	1	-0.7			0.006			-0.6			Not Labeled	Not Labeled	Cat IV	Balls et al. (1995)
Tween 20	9005-64-5	liquid	n.p.	98	2	-0.3			-0.052			-1.1			Not Labeled			Balls et al. (1995)
Tween 20	9005-64-5	liquid	n.p.	98	3	-2			0.026			-1.6			Not Labeled			Balls et al. (1995)
Tween 20	9005-64-5	liquid	n.p.	98	4	2.67			0.0003			2.711			Not Labeled			Balls et al. (1995)
Tween 20	9005-64-5	liquid	n.p.	98	5	0.1			0.026			0.4			Not Labeled			Balls et al. (1995)

***In Vitro Data for Substances Tested in the BCOP Assay: Sorted by Substance***

Substance	CASRN	Form Tested	Concentration Tested	Purity (%)	Lab No.	Mean Opacity	n	SD - Opacity	Mean OD <sub>490</sub>	n	SD - OD <sub>490</sub>	In Vitro Score	n	SD - Score	In Vitro Classification <sup>1</sup>	In Vitro Consensus Classification Severe $\geq 55.1$ <sup>2</sup>	In Vitro Consensus Classification Severe $\geq 75$ <sup>2</sup>	Reference
Tween 20	9005-64-5	liquid	100%	98	1 (1)	0.3	3	0.0	0.003	3	0.012	0.3	3	0.2	Not Labeled	Not Labeled	Not Labeled	Southee (1998)
Tween 20	9005-64-5	liquid	100%	98	1 (2)	0.0	3	1.5	0.004	3	0.01	0.0	3	1.6	Not Labeled			Southee (1998)
Tween 20	9005-64-5	liquid	100%	98	2 (1)	0.4	3	0.6	0.001	3	0.002	0.4	3	0.6	Not Labeled			Southee (1998)
Tween 20	9005-64-5	liquid	100%	98	2 (2)	0.4	3	0.6	0.003	3	0.008	0.4	3	0.5	Not Labeled			Southee (1998)
Tween 20	9005-64-5	liquid	100%	98	3 (1)	0.0	3	0.0	0.022	3	0.018	0.3	3	0.3	Not Labeled			Southee (1998)
Tween 20	9005-64-5	liquid	100%	98	3 (2)	0.0	3	1.0	0.001	3	0.022	0.0	3	1.3	Not Labeled			Southee (1998)
U		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	3.4	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
V		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	20.8	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
W		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	5.7	n.p.	n.p.	Cat III	Cat III	Cat III	AMCP BRD
X		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	81.9	n.p.	n.p.	Cat I	Cat I	Cat I	AMCP BRD
Y		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	74.9	n.p.	n.p.	Cat I	Cat I	Cat II	AMCP BRD
Z		n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	31.6	n.p.	n.p.	Cat II	Cat II	Cat II	AMCP BRD

Abbreviations: CASRN = Chemical Abstract Services Registry Number; n.a. = Not Applicable; n.p. = Not Provided; SCNM = Study Criteria Not Met.

<sup>1</sup> *In Vitro* Classification represents the BCOP ocular irritancy classification assigned for each chemical in the study for each test for a specific substance

<sup>2</sup> Consensus classification represents the overall BCOP ocular irritancy classification assigned for each chemical in the study based on the majority of ocular irritancy classification calls