

Common name	Other names	CAS number	Formula	Molar weight [g/mol]	Boiling point [°C]	Flash point [°C]	Ignition temperature [°C]	MIE [mJ]	LEL [vol-%]	UEL [vol-%]	MIQ [nC]	Most ignitable mixture [vol-%]	Conductivity [S/m] (measured at [°C])	Ex-group according to [IEC 60079-0]
<b>1,1,1-trichloroethane</b>	methyl chloroform, ethenyltrichloride	71-55-6	CH <sub>3</sub> CCl <sub>3</sub>	133.40	ca. 74		490	4 800	9.5	15.5	700 000	12		IIA
<b>1,1-dichloroethane</b>	ethylidene chloride, ethylidene dichloride	75-34-3	CH <sub>3</sub> CHCl <sub>2</sub>	98.96	57	-10	440		5.6	ca. 16			2.0 · 10 <sup>-7</sup> (-°C)	IIA
<b>1,2-butadiene</b>	buta-1,2-diene, methylallene	590-19-2	H <sub>2</sub> C=C=CHCH <sub>3</sub>	54.09	10.8	< -50	340		1.6	18.3				
<b>1,2-dibromoethane</b>	ethylenedibromide, ethylene bromide	106-93-4	CH <sub>2</sub> BrCH <sub>2</sub> Br	187.86	131								< 2 · 10 <sup>-8</sup> (19°C)	
<b>1,2-dichloroethane</b>	ethylene dichloride	107-06-2	CH <sub>2</sub> ClCH <sub>2</sub> Cl	98.96	84	13	440	1.0	4.2	16		10.5	4.0 · 10 <sup>-9</sup> (25°C)	IIA
<b>1,3-butadiene</b>	buta-1,3-diene, vinylethylene, bivinyl, divinyl, biethylene, diethylene	106-99-0	CH <sub>2</sub> =CHCH=CH <sub>2</sub>	54.09	-4.5	-85	415	0.13	1.4	16.3		5.2		IIB
<b>1,3-cyclopentadiene</b>	cyclopenta-1,3-diene	542-92-7	C <sub>5</sub> H <sub>6</sub>	66.10	40	< -20 geschlossen, 25 offen	640	0.67						
<b>1-butene</b>	1-butylene, alpha-butylene, 1-butylene, but-1-ene	106-98-9	CH <sub>2</sub> =CHCH <sub>2</sub> CH <sub>3</sub>	56.11	-6.2	-80	360	1.6	1.5	10.6				IIA
<b>1-chloro-2-methylpropane</b>	isobutyl chloride, 2-methylpropyl chloride	513-36-0	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> Cl	92.57	69	ca. -21	395		2.0	8.8			1 · 10 <sup>-8</sup> (30°C)	IIA
<b>1-chlorobutane</b>	1-butyl chloride	109-69-3	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> Cl	92.57	78	-12	245	1.24	1.8	10.1			1 · 10 <sup>-8</sup> (30°C)	IIA
<b>1-nitropropane</b>		108-03-2	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> NO <sub>2</sub>	89.09	131	35	420		2.2				3.3 · 10 <sup>-5</sup> (35°C)	IIB
<b>1-propanol</b>	propyl alcohol, ethyl carbinol, n-propanol, propanol-(1)	71-23-8	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> OH	60.10	97	22	385		2.1	19.2			9.17 · 10 <sup>-7</sup> (18°C)	IIA, IIB
<b>2,2-dimethylbutane</b>	neohexane	75-83-2	(CH <sub>3</sub> ) <sub>3</sub> CCH <sub>2</sub> CH <sub>3</sub>	86.18	50	-48	435	0.25	1.2	7.0	70	3.4		IIA
<b>2-aminoethanol</b>	ethanolamine, 2-aminoethan-1-ol, colamine, beta-hydroxyethylamine, monoethanolamine	141-43-5	HOCH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>	61.08	172	85	410						11.0 · 10 <sup>-4</sup> (25°C)	IIA
<b>2-bromonaphthalene</b>		580-13-2	C <sub>10</sub> H <sub>7</sub> Br	207.07	281 ... 280	113							3.66 · 10 <sup>-9</sup> (25°C)	
<b>2-butoxyethanol</b>	ethylene glycol monobutyl ether, butyl glycol, butyl cellosolve, glycol monobutyl ether, 1-butoxy-2-hydroxyethane, ethylene glycol butyl ether, ESDS	111-76-2	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OH	118.18	171	61	240		1.1	10.6			4.32 · 10 <sup>-5</sup> (20°C)	IIB
<b>2-chloro-2-methylpropane</b>	tert-butyl chloride	507-20-0	(CH <sub>3</sub> ) <sub>3</sub> CCl	92.57	51	-33	540		1.8	10.1			1 · 10 <sup>-8</sup> (30°C)	IIA
<b>2-chlorobutane</b>	2-butyl chloride	78-86-4	CH <sub>3</sub> CHClC <sub>2</sub> H <sub>5</sub>	92.57	68	ca. -21	415		2.0	8.8			1 · 10 <sup>-8</sup> (30°C)	IIA
<b>2-ethoxyethanol</b>	ethylene glycol monoethyl ether, cellosolve, glycol monoethyl ether, ethyl glycol, EGEE	110-80-5	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OH	90.12	135	40 / 48.9	235		1.8	15.7			9.3 · 10 <sup>-6</sup> (-°C)	IIB
<b>2-methoxyethanol</b>	ethylene glycol monomethyl ether, glycol monomethyl ether, methyl cellosolve, 1-methoxy-2-hydroxyethane, methyl glycol, EGME	109-86-4	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OH	76.10	124	39	285		2.5	20			1.09 · 10 <sup>-4</sup> (20°C)	IIB
<b>2-nitropropane</b>	sec-nitropropane	79-46-9	CH <sub>3</sub> CH(NO <sub>2</sub> )CH <sub>3</sub>	89.09	120	26	425		2.2				5 · 10 <sup>-5</sup> (30°C)	IIB
<b>2-propanol</b>	isopropyl alcohol, isopropanol, dimethyl carbinol, propanol-(2)	67-63-0	(CH <sub>3</sub> ) <sub>2</sub> CHOH	60.10	82	12	425	0.51	2	13.4			5.8 · 10 <sup>-6</sup> (25°C)	IIA
<b>3,4-dimethylhexane</b>		583-48-2	CH <sub>3</sub> CH <sub>2</sub> CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>3</sub>	114.23	118	ca. 5 ... 10		0.28	ca. 08	ca. 6.5				IIA
<b>3-chloropropene</b>	3-chlorprop-1-en, gamma-chlorpropylene, 1-chlorprop-2-en, allylchlorid, 3-chlor-1-propene	107-05-1	CH <sub>2</sub> =CHCH <sub>2</sub> Cl	76.53	45	-27	390	0.77	3.26	11.2				IIA
<b>4-methyl-2-pentanone</b>	MiBK, isobutyl methyl ketone, 2-methylpentan-4-one, methyl (beta-methylpropyl) ketone, methyl isobutyl ketone, isopropyl acetate, hexanaphthalenone, 4-methylpentan-2-one	108-10-1	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> COCH <sub>3</sub>	100.16	116	14	475		1.2	8			< 5.2 · 10 <sup>-6</sup> (35°C)	IIA
<b>4-methylene-2-oxetanone</b>	diketene	674-82-8	C <sub>4</sub> H <sub>2</sub> O <sub>2</sub>	84.07	127	33	275		2	11.7				
<b>acetaldehyde</b>	acetic aldehyde, acetyl hydrogen, ethylidene oxide, ethanal	75-07-0	CH <sub>3</sub> CHO	44.05	20	< -20	155	0.38	4	57			1.20 · 10 <sup>-4</sup> (0°C)	IIA
<b>acetamide</b>	acetic acid amide, ethanamide	60-35-5	CH <sub>3</sub> CONH <sub>2</sub>	59.07	222								8.8 · 10 <sup>-5</sup> (83.2°C)	
<b>acetic acid</b>	glacial acetic acid, ethanoic acid, E 260	64-19-7	CH <sub>3</sub> COOH	60.05	118	38.5	485		6	17			6 · 10 <sup>-7</sup> (25°C)	IIA
<b>acetic acid amyl ester</b>	pentyl acetate, amyl acetate, 1-pentanol acetate, pear oil, pear ether, banana oil, amyl acetate	628-63-7	CH <sub>3</sub> COOCH <sub>2</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	130.19	149	41	350		1.0	7.5			1.6 · 10 <sup>-7</sup> (25°C)	IIA

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acetic acid ethyl ester	ethyl acetate, ethanoic acid ethyl ester, acetic ester	141-78-6	CH <sub>3</sub> COOCH <sub>2</sub> CH <sub>3</sub>	88.11	77	-4	470	0.46	2	12.8	120	5.2	< 1 · 10 <sup>-7</sup> (-°C)	IIA
acetic acid isobutyl ester	isobutyl acetate, acetic acid (2-methylpropyl) ester, pineapple ester	110-19-0	CH <sub>3</sub> COOCH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	116.16	118	18	420		1.25	10.5			2.55 · 10 <sup>-2</sup> (19°C)	IIA
acetic acid methyl ester	methyl acetate	79-20-9	CH <sub>3</sub> COOCH <sub>3</sub>	74.08	57	-13	505		3.1	16			3.4 · 10 <sup>-4</sup> (20°C)	IIA
acetic acid propyl ester	propyl acetate, propanoic acid propyl	109-60-4	CH <sub>3</sub> COOCH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	102.13	102	10	455		1.7	8.0			2.2 · 10 <sup>-5</sup> (17°C)	IIA
acetoacetic acid ethyl ester	ethyl acetoacetate, acetoacetic ester, 2-butanone acid ethyl ester, beta-hydroxycinnamic acid ethyl ester, ethyl (acetylacetate), ethyl 3-oxobutanoate	141-97-9	CH <sub>3</sub> COCH <sub>2</sub> COOCH <sub>2</sub> CH <sub>3</sub>	130.14	180	65	350		1				4 · 10 <sup>-6</sup> (25°C)	
acetone	ketopropane, propan-2-one, pyroacetic ether, methyl acetyl, 2-propanone, dimethyl ketone, methyl ethyl ketone, vinegar spirit, acetic acid	67-64-1	(CH <sub>3</sub> ) <sub>2</sub> CO	58.08	56	< -20	527.5	0.55	2.5	14.3	127	6.5	4.9 · 10 <sup>-7</sup> (25°C)	IIA
acetonitrile	methyl cyanide, ethane nitrile, acetic acid nitrile	75-05-8	CH <sub>3</sub> CN	41.05	82	2	525		3	17			6 · 10 <sup>-8</sup> (25°C)	
acetophenone	acetylbenzene, methyl phenyl ketone, 1-phenylethanone, hypnon, dymex	98-86-2	(C <sub>6</sub> H <sub>5</sub> )COCH <sub>3</sub>	120.15	202	77	535		1.1				3.1 · 10 <sup>-7</sup> (25°C)	
acetyl chloride	ethanoyl chloride, acetic acid chloride	75-36-5	CH <sub>3</sub> COCl	78.50	51	-4	390		7.3	19				
acetylene	ethyne, narylene, dissous gas	74-86-2	C <sub>2</sub> H <sub>2</sub>	26.04			305	0.019	2.3	100		7.7		IIC
acrylaldehyde	propenal, acrolein	107-02-8	CH <sub>2</sub> =CHCHO	56.06	52	-26	215	0.13	2.8	31			1.55 · 10 <sup>-5</sup> (-°C)	IIB
acrylonitrile	acrylon, vinyl cyanide, ventox, acrylonitrile, propene nitrile, propeneacetonitrile	107-13-1	CH <sub>2</sub> =CHCN	53.06	77	-5	480	0.16	2.8	28		9.0		IIB
allyl alcohol	acrylic alcohol, acryloxide hydrate, 2-propen-1-ol, vinyl carbinol, prop-2-en-1-ol	107-18-6	CH <sub>2</sub> =CHCH <sub>2</sub> OH	58.08	97	21	375	0.16	2.5	18				IIB
allylamine	3-aminopropylene, 3-aminoprop-1-ene, monoallylamine, 2-propenylamine, 3-amino-1-propene, MAA	107-11-9	CH <sub>2</sub> = CHCH <sub>2</sub> NH <sub>2</sub>	57.10	53	-29	370		2.2	22			5.7 · 10 <sup>-3</sup> (25°C)	
ammonia, anhydrous	R 717	7664-41-7	NH <sub>3</sub>	17.03	-33.4		630	14	14	32.5	1 500	20		IIA
aniline	phenylamine, aminobenzene, aniline oil, benzenamine, aminophen+D6:D21	62-53-3	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	93.13	184	76	630		1.2	11			2.4 · 10 <sup>-6</sup> (25°C)	IIA
anisole	methoxybenzene, methylphenyl ether, phenyl methyl ether	100-66-3	C <sub>6</sub> H <sub>5</sub> OCH <sub>3</sub>	108.41	154	41	475		1.2	6.3			1 · 10 <sup>-11</sup> (25°C)	IIB
benzene		71-43-2	C <sub>6</sub> H <sub>6</sub>	78.11	80	-11	555	0.2	1.2	8.6	45	4.7		IIA
benzine (petrol)		8006-61-9			30 ... 215	< -35	ca. 220	ca. 0.23	ca. 0.6	ca. 8			ca. 1 · 10 <sup>-13</sup> (20°C)	IIA
benzoic acid ethyl ester	ethyl benzoate	93-89-0	C <sub>6</sub> H <sub>5</sub> COOCH <sub>2</sub> CH <sub>3</sub>	150.18	213	88	490		1				1 · 10 <sup>-7</sup> (25°C)	
benzonitrile	phenyl cyanide, cyanobenzene	100-47-0	C <sub>6</sub> H <sub>5</sub> CN	103.12	191	67	550		0.9	12			0.5 · 10 <sup>-5</sup> (25°C)	IIA
benzyl chloride	tolyl chloride, alpha-chlorotoluene	100-44-7	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> Cl	126.59	179	60	585		1.1	14				IIA
bromobenzene	phenyl bromide, monobromobenzene	108-86-1	(C <sub>6</sub> H <sub>5</sub> )Br	157.01	156	51	565		0.5	2.5			1.2 · 10 <sup>-9</sup> (25°C)	IIA
bromoform	tribromomethane	75-25-2	CHBr <sub>3</sub>	252.75	149.5								< 2 · 10 <sup>-6</sup> (25°C)	
butane		106-97-8	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub>	58.12	-0.5	-60	365	0.25	1.4	9.4	60	4.7		IIA
butanol-(1)	n-butanol, butyl alcohol, propyl carbinol, 1-butanol	71-36-3	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> OH	74.12	118	35	325		1.4	11.3			9.12 · 10 <sup>-7</sup> (-°C)	IIB
butanol-(2)	2-butanol, sec-butanol, sec-butyl alcohol, 1-methyl-1-propanol, ethyl methyl carbinol	78-92-2	CH <sub>3</sub> CH <sub>2</sub> CHOHCH <sub>3</sub>	74.12	99	23	390		ca.1.65	ca.11			< 1.0 · 10 <sup>-5</sup> (-°C)	
butanone	2-butanone, MEK, methyl ethyl ketone, ethyl methyl ketone, beta-ketobutane	78-93-3	CH <sub>3</sub> CH <sub>2</sub> COCH <sub>3</sub>	72.11	80	-7.5	475	0.27	1.5	11.5		5.3	3.6 · 10 <sup>-7</sup> (-°C)	IIA
butyl acetate	1-butyl acetate	123-86-4	CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	116.16	127	27	390		1.2	ca. 8.5				IIA
butyl acrylate	butyl propionate, butyl 2-propenoate	141-32-2	CH <sub>2</sub> =CHCOOC <sub>4</sub> H <sub>9</sub>	128.17	148	37	275		1.2	8				IIB
butyl stearate	butyl octadecanoate	123-95-5	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> COO(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	340.59	343	160	350						2.1 · 10 <sup>-11</sup> (30°C)	
caprylic acid	octanoic acid	124-07-2	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>2</sub> COOH	144.21	237	126.5	245		ca. 1				< 3.7 · 10 <sup>-11</sup> (-°C)	IIA
carbon disulphide	carbon disulfide	75-15-0	CS <sub>2</sub>	76.14	46	< -20	95	0.009	0.6	60		7.8		IIC
carbon tetrachloride	tetrachloromethane, perchloromethane, tetra	56-23-5	CCl <sub>4</sub>	153.82	76.7								4 · 10 <sup>-16</sup> (18°C)	
carbonic acid diethyl ester	diethyl carbonate	105-58-8	(CH <sub>3</sub> CH <sub>2</sub> O) <sub>2</sub> CO	118.13	126	25	445		1.4	11.7			9.1 · 10 <sup>-8</sup> (25°C)	IIB
chloroethane	monochloroethane, ethyl chloride, kelen, R 160, chloroethyl	75-00-3	CH <sub>3</sub> CH <sub>2</sub> Cl	64.51	13.1	-50	510		3.6	14.8			< 3 · 10 <sup>-7</sup> (0°C)	IIA

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chlorobenzene	monochlorobenzene, benzene monochloride, phenyl chloride, phenyl chloride	108-90-7	(C <sub>6</sub> H <sub>5</sub> )Cl	112.56	132	28	590		1.3	11			7 · 10 <sup>-9</sup> (25°C)	IIA
chloroform	trichloromethane, methenyl chloride, chloroetheride, methine chloride, methylene chloride	67-66-3	CHCl <sub>3</sub>	119.38	61								< 1 · 10 <sup>-8</sup> (25°C)	
chloromethane	methyl chloride, monochloromethane, methyl chloride, R 40, MC	74-87-3	CH <sub>3</sub> Cl	50.49	-23.8		625		7.6	19				IIA
cis-1,2-dichloroethylene	cis-1,2-dichloroethencis-dioform, sym-cis-dichloroethylene	156-59-2	CHClCHCl	96.94	60	6	460		6.2	16			8.5 · 10 <sup>-7</sup> (25°C)	IIA
cis-2-pentene	(2Z)-2-pentene, 2-pentene, cis	627-20-3	C <sub>2</sub> H <sub>5</sub> CH=CHCH <sub>3</sub>	70.10	37	-20		0.18				4.4		IIB
cyclohexane	naphthene, hexahydrobenzene, hexamethylene, hexanaphthene	110-82-7	C <sub>6</sub> H <sub>12</sub>	84.16	81	-18	260	0.22	1	9.3		3.8		IIA
cyclohexanone	anonsextone, ketoexamethylene, anon, sextone, pimelinketone	108-94-1	C <sub>6</sub> H <sub>10</sub> O	98.14	156	43	430		1.3	9.4			5 · 10 <sup>-6</sup> (25°C)	IIA
cyclohexene	1,2,3,4-tetrahydrobenzene	110-83-8	C <sub>6</sub> H <sub>10</sub>	82.15	83	-17	265	0.52	1.09	7.7				IIB
cyclopentane	pentamethylene	287-92-3	C <sub>5</sub> H <sub>10</sub>	70.13	49	-51	320	0.54	1.4	8.7				IIA
cyclopropane	trimethylene	75-19-4	(CH <sub>2</sub> ) <sub>3</sub>	42.08	-32.9		495	0.17	2.4	10.4		6.3		IIB
dichloromethane	methylene dichloride, chloromethylene, methylene chloride, Freon 30	75-09-2	CH <sub>2</sub> Cl <sub>2</sub>	84.93	40		605	9 300	13	22	880 000	18	4.3 · 10 <sup>-9</sup> (25°C)	IIA
diesel fuel	diesel, fuels, diesel no. 2	68476-34-6			141 ... 462	> 56	> 225	0.23	0.6	6.5			ca. 1 · 10 <sup>-13</sup> (20°C)	IIA
diethyl ether	diethyl oxide, 1-oxybisethane, vitriol ether, ethyl ether, ether, ethoxyethane, ethyl oxide	60-29-7	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	74.12	35	-40	175	0.19	1.7	39.2	40	5.1		IIB
diethylene glycol	2,2'-oxydiethanol, diglycol, bis(2-hydroxyethyl)ether, 2,2'-dihydroxydiethylether, 3-oxa-1,5-pentandiol, DEG	111-46-6	HO(CH <sub>2</sub> ) <sub>2</sub> O(CH <sub>2</sub> ) <sub>2</sub> OH	106.12	244	138	355		1.7	37			5.86 · 10 <sup>-5</sup> (20°C)	IIB
dimethyl ether	methoxymethane, wood ether, methyl ether, methyl oxide	115-10-6	(CH <sub>3</sub> ) <sub>2</sub> O	46.07	-24.8	-42.2	240	0.19	2.8	24.4				IIB
dimethyl sulfoxide	methylsulfanylmethane, methyl sulfoxide, DMSO, sulfinyl bismethane	67-68-5	(CH <sub>3</sub> ) <sub>2</sub> SO	78.14	189	88	270		1.8				2 · 10 <sup>-7</sup> (25°C)	
di-tert-butyl peroxide	DTBP, bis(1,1-dimethylethyl) peroxide, ditertiary butyl peroxide	110-05-4	(CH <sub>3</sub> ) <sub>3</sub> COOC(CH <sub>3</sub> ) <sub>3</sub>	146.23		4	182	0.41	0.74	100				IIB
epichlorohydrin	1-chloro-2,3-epoxypropane, gamma-chloropropylene oxide, epoxychloropropane, chloromethylene oxirane, ECH	106-89-8	C <sub>3</sub> H <sub>5</sub> OCl	92.53	116	28	385		2.3	34.4			3.4 · 10 <sup>-6</sup> (25°C)	IIB
ethane	bimethyl, dimethyl, R 170	74-84-0	CH <sub>3</sub> CH <sub>3</sub>	30.07	-89.6	-135	515	0.25	2.4	14.8	70	6.5		IIA
ethanol	ethyl alcohol, alcohol, methyl carbinol	64-17-5	CH <sub>3</sub> CH <sub>2</sub> OH	46.07	78	12.0	400	0.28	3.1	27.7	60	6.4	1.35 · 10 <sup>-7</sup> (25°C)	IIB
ethene	ethylene, R 1150	74-85-1	CH <sub>2</sub> =CH <sub>2</sub>	28.05	-103.8		440	0.082	2.4	32.6	32	8.0		IIB
ethyl bromide	bromethane, monobromethane, bromethyl	74-96-4	CH <sub>3</sub> CH <sub>2</sub> Br	108.97	38	-20	510		6.7	11.3			< 2 · 10 <sup>-6</sup> (25°C)	IIA, IIB
ethyl cyanocaproate	ethyl cyanoacetate, cyanoacetic acid ethyl ester, ethyl cyanoacetate, malonethyl ester nitrile	105-56-6	NCCH <sub>2</sub> COOCH <sub>2</sub> CH <sub>3</sub>	113.12	209	110	460						6.9 · 10 <sup>-5</sup> (25°C)	
ethylene diamine	1,2-ethanediamine, 1,2-diaminoethane, dimethylenediamine	107-15-3	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>	60.10	116	34	400		2.5	16.3			9 · 10 <sup>-6</sup> (25°C)	IIA
ethylene glycol	monoethyleneglycol, 1,2-ethanediol, glycol, ethylene alcohol, 1,2-dihydroxyethane	107-21-1	(CH <sub>2</sub> OH) <sub>2</sub>	62.07	197	111	410		3.2	43...51			1.16 · 10 <sup>-4</sup> (25°C)	IIB
ethylene imine	dimethylenimine, aziridine	151-56-4	(CH <sub>2</sub> CH <sub>2</sub> )NH	43.07	ca.55	-13	320		3.6	46			8 · 10 <sup>-4</sup> (25°C)	
ethylene oxide	1,2-epoxyethane, oxirane, dimethylene oxide, ethanepoxide, ethanoxide	75-21-8	(CH <sub>2</sub> ) <sub>2</sub> O	44.05	10.05	-57	435	0.061	2.6	100		10.8		IIB
formamide	formic acid amide, methane amide	75-12-7	HCONH <sub>2</sub>	45.04	210	175	152		2.7	19.0			< 2 · 10 <sup>-5</sup> (-°C)	
formic acid	formyl acid, methanoic acid, hydrocarboxylic acid, E 236	64-18-6	HCOOH	46.03	101	45	520		10	45.5			6.08 · 10 <sup>-3</sup> (-°C)	IIA
formic acid ethyl ester	ethyl formiate	109-94-4	HCOOCH <sub>2</sub> CH <sub>3</sub>	74.08	54	-20	445		2.8	16			1.45 · 10 <sup>-7</sup> (20°C)	IIA
formic acid methyl ester	methyl formiate, R 611	107-31-3	HCOOCH <sub>3</sub>	60.05	32	-27	450		5	23			1.92 · 10 <sup>-4</sup> (17°C)	IIA
formic acid propyl ester	propyl formiate	110-74-7	HCOOCH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	88.11	81	-3	360		2.15	7.8			5.5 · 10 <sup>-3</sup> (17°C)	IIA
glycerine	oil sweet, 1,2,3-trioxypropane, 1,2,3-trihydroxypropane, 1,2,3-propanetriol, protol, glycerol, E 422	56-81-5	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH	92.09	290	191	400		2.6	11.3			ca. 0.6 · 10 <sup>-5</sup> (25°C)	

Common name	Other names	CAS number	Formula	Molar weight [g/mol]	Boiling point [°C]	Flash point [°C]	Ignition temperature [°C]	MIE [mJ]	LEL [vol-%]	UEL [vol-%]	MIQ [nC]	Most ignitable mixture [vol-%]	Conductivity [S/m] (measured at [°C])	Ex-group according to [IEC 60079-0]
heptane	n-heptane	142-82-5	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub>	100.20	98	-7	220.4	0.24	0.84	6.7	60	3.4		IIA
hexane	n-hexane	110-54-3	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub>	86.18	69	< -22	230	0.24	1.0	8.9	60	3.8		IIA
hydrogen		1333-74-0	H <sub>2</sub>	2.02	-252.76		560	0.016	4.0	77	12	22		IIC
i-propyl acetate	acetic acid isopropyl ester, isopropyl acetate	108-21-4	CH <sub>3</sub> COOCH(CH <sub>3</sub> ) <sub>2</sub>	102.13	89	1.5	425		1.8	8				IIA
isoamyl alcohol	3-methyl-1-butanol, i-amyl alcohol, prim, i-butyl carbinol, isopentyl alcohol, 3-methylbutan-1-ol, iso-amyl alcohol	123-51-3	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> CH <sub>2</sub> OH	88.15	131	42	340		1.2	10.5			1.4 · 10 <sup>-7</sup> (25°C)	IIA
isobutanol	2-methyl-1-propanol, iso-butanol, isobutyl alcohol	78-83-1	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> OH	74.12	108	27	430		1.4	ca. 11			1.6 · 10 <sup>-6</sup> (25°C)	IIA
isopentane	2-methylbutane, i-pentane, methylbutane	78-78-4	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> CH <sub>3</sub>	72.15	28	< -57	420	0.21	1.3	7.6	63	3.8		IIA
isovaleric acid	3-methylbutyric acid, isopentanoic acid, isopropylacetic acid, delphinic acid	503-74-2	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> COOH	102.13	175 ... 177	78	385		1.4	ca. 7.3			< 4 · 10 <sup>-11</sup> (80°C)	IIA
kerosene	light petroleum, jet fuel	8008-20-6			150 ... 300	49 ... 55	220		0.6	6.5				IIA
lactic acid ethyl ester	2-hydroxypropionic acid ethyl ester, ethyl 2-hydroxypropionate, ethyl lactate	97-64-3	CH <sub>3</sub> CH(OH)COOCH <sub>2</sub> CH <sub>3</sub>	118.13	154	46	400		1.5	11.4			1.0 · 10 <sup>-4</sup> (25°C)	IIA
m-cresol	3-methylphenol	108-39-4	HO(C <sub>6</sub> H <sub>4</sub> )CH <sub>3</sub>	108.14	203	86	626		1.0				1.397 · 10 <sup>-6</sup> (25°C)	IIA
methane	R 50	74-82-8	CH <sub>4</sub>	16.04	-161.5	< -188	595	0.28	4.4	17	70	8.5		IIA
methanol	methyl alcohol, carbinol, wood alcohol	67-56-1	CH <sub>3</sub> OH	32.04	65	9	440	0.20	6	50	50	14.7	1.5 · 10 <sup>-7</sup> (25°C)	IIA
methyl cyanocaproate	methyl cyanoacetate	105-34-0	NCCH <sub>2</sub> COOCH <sub>3</sub>	99.09	203	110	478						4.49 · 10 <sup>-5</sup> (25°C)	
methylcyclohexane	cyclohexylmethane, heptanaphthene, hexahydrotoluene	108-87-2	(CH <sub>2</sub> ) <sub>5</sub> CHCH <sub>3</sub>	98.19	101	-4	260	0.27	1.1	6.7	70	3.5		IIA
m-toluidine	3-methylaniline	108-44-1	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> NH <sub>2</sub>	107.16	203	85	480						5.5 · 10 <sup>-8</sup> (25°C)	IIA
m-xylene	1,3-dimethylbenzene	108-38-3	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>	106.17	139	25	540		0.97	7.0			8.6 · 10 <sup>-14</sup> (25°C)	IIA
N,N-dimethylformamide	DMF, N,N-dimethylmethanamide, dimethylformamide, formic acid dimethylamide, formyl dimethylamine	68-12-2	HCON(CH <sub>3</sub> ) <sub>2</sub>	73.09	153	58	440		2.2	16			6 · 10 <sup>-6</sup> (25°C)	IIA
nitrobenzene	mirban oil, benzin, mirban essence	98-95-3	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	123.11	211	88	480		1.4	40			2.05 · 10 <sup>-8</sup> (25°C)	IIB
nitroethane		79-24-3	CH <sub>3</sub> CH <sub>2</sub> NO <sub>2</sub>	75.07	115	28	410		3.4				5 · 10 <sup>-5</sup> (30°C)	IIB
nitromethane	mononitromethane	75-52-5	CH <sub>3</sub> NO <sub>2</sub>	61.04	101	36	415		7.1	63			5 · 10 <sup>-7</sup> (25°C)	IIA
N-methyl-2-pyrrolidone	N-methylpyrrolidone, 1-methyl-2-pyrrolidone, NMP	872-50-4	C <sub>5</sub> H <sub>9</sub> ON	99.13	ca.203	86	265		1.52	9.5			2 · 10 <sup>-6</sup> (25°C)	IIA
N-methylacetamid		79-16-3	CH <sub>3</sub> CONH(CH <sub>3</sub> )	73.09	204 ... 206	116	490		3.2	18.1			2 · 10 <sup>-5</sup> (40°C)	
N-methylformamide		123-39-7	HCONH(CH <sub>3</sub> )	59.07	199 ... 201	111	425						8 · 10 <sup>-5</sup> (25°C)	
o-cresol	2-methylphenol	95-48-7	OH(C <sub>6</sub> H <sub>4</sub> )CH <sub>3</sub>	108.14	191	81	555		1.3				1.27 · 10 <sup>-7</sup> (25°C)	IIA
octanol-(1)	1-octanol, octan-1-ol, octyl alcohol, heptyl carbinol, caprylic alcohol	111-87-5	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>7</sub> OH	130.23	195	84	245						1.39 · 10 <sup>-5</sup> (23°C)	IIA
o-dichlorobenzene	1,2-dichlorobenzene, o-DCB	95-50-1	C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	147.00	179	70	640		1.7	12			3 · 10 <sup>-9</sup> (25°C)	IIA
o-toluidine	o-aminotoluene, o-methylaniline, 2-methylaniline, 2-aminotoluene, 1-amino-2-methylbenzene, o-tolylamine	95-53-4	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> NH <sub>2</sub>	107.16	200	85	480		1.5	7.5			3.792 · 10 <sup>-5</sup> (25°C)	IIA
o-tolunitrile	2-tolunitrile, 2-methylbenzotrile, o-tolyl cyanide	529-19-1	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> CN	117.15	205	82	> 525		1.1	6.7			< 0.5 · 10 <sup>-5</sup> (25°C)	
oxalic acid diethyl ester	diethyl oxalate, diethyl ethanedioate	95-92-1	(COOCH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub>	146.14	185	76	410		0.42	2.67			7.12 · 10 <sup>-5</sup> (25°C)	IIA, IIB
o-xylene	1,2-dimethylbenzene	95-47-6	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>	106.17	144	30	465		0.97	7.6			6.7 · 10 <sup>-14</sup> (25°C)	IIA
p-cresol	4-methylphenol	106-44-5	OH(C <sub>6</sub> H <sub>4</sub> )CH <sub>3</sub>	108.14	201	86	555		1.0				1.378 · 10 <sup>-6</sup> (25°C)	IIA
p-dioxane	1,4-dioxane, dioxane, paradioxane, diethylenedioxiide, 1,4-dioxacyclohexane, ethylenedioxiide	123-91-1	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	88.11	101	11	375		1.4	22.5			5 · 10 <sup>-13</sup> (25°C)	IIB
pentane	n-pentane	109-66-0	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub>	72.15	36	-49	260	0.28	1.1	8.7	63	3.3		IIA
phenetol	ethoxybenzene, ethylphenyl ether	103-73-1	C <sub>6</sub> H <sub>5</sub> OCH <sub>2</sub> CH <sub>3</sub>	122.17	169 ... 170	57							< 1.7 · 10 <sup>-6</sup> (25°C)	
phenol	coal tar creosote, o-benzene, phenyl alcohol, benzophenone, carboic acid, phenylhydrate, monohydroxybenzene, phenylacetic acid	108-95-2	C <sub>6</sub> H <sub>5</sub> OH	94.11	182	82	595		1.3	9.5			(1-3) · 10 <sup>-6</sup> (50°C)	IIA
phthalic acid dibutyl ester	dibutyl phthalate, DBP	84-74-2	C <sub>6</sub> H <sub>4</sub> (COO(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> ) <sub>2</sub>	278.35	340	157	400		0.47	1.97			1.8 · 10 <sup>-7</sup> (30°C)	IIA

Common name	Other names	CAS number	Formula	Molar weight [g/mol]	Boiling point [°C]	Flash point [°C]	Ignition temperature [°C]	MIE [mJ]	LEL [vol-%]	UEL [vol-%]	MIQ [nC]	Most ignitable mixture [vol-%]	Conductivity [S/m] (measured at [°C])	Ex-group according to [IEC 60079-0]
propane	R 290, n-propane	74-98-6	CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	44.10	-42.1	-104	470	0.25	1.7	10.8	70	5.2		IIA
propene	propylene, methylethene, R1270	115-07-1	CH <sub>3</sub> CH=CH <sub>2</sub>	42.08	-47.7	-108	485	0.17	1.8	11.2				IIA
propin	1-propyn, allylene, methylacetylene	74-99-7	CH <sub>3</sub> CCH	40.06	-23.21		340	0.11	1.8	16.8		6.5		IIB
propionaldehyde	propyl aldehyde, methylacetaldehyde, propanal	123-38-6	CH <sub>3</sub> CH <sub>2</sub> CHO	58.08	49	-40	190		2.3	21			1 · 10 <sup>-2</sup> (25°C)	IIB
propionic acid	propanoic acid, methacetic acid, ethane carboxylic acid, E 280	79-09-4	CH <sub>3</sub> CH <sub>2</sub> COOH	74.08	141	52	485		2.85	12			< 1 · 10 <sup>-7</sup> (25°C)	IIA
propionic acid ethyl ester	ethyl propionate, ethyl propanoate	105-37-3	CH <sub>3</sub> CH <sub>2</sub> COOCH <sub>2</sub> CH <sub>3</sub>	102.13	99	12	455		1.8	11			8.33 · 10 <sup>-2</sup> (17°C)	IIA
propionitrile	ethyl cyanide	107-12-0	CH <sub>3</sub> CH <sub>2</sub> CN	55.08	97	2	510		3.1				8.51 · 10 <sup>-6</sup> (25°C)	IIA
propylene oxide	1,2-epoxypropane, 1,2-propylene oxide, propene oxide, methyl oxirane	75-56-9	CH <sub>3</sub> CHCH <sub>2</sub> O	58.08	34	-38	430	0.13	1.9	38.8		7.5		IIB
p-toluidine	4-aminotoluene, p-methylaniline, 4-methylaniline, p-aminotoluene, 1-amino-4-methylbenzene	106-49-0	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> NH <sub>2</sub>	107.16	200	87	480						6.2 · 10 <sup>-6</sup> (100°C)	IIA
p-xylene	1,4-dimethylbenzene	106-42-3	C <sub>8</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>	106.17	138	25	540		0.95	7.0			7.6 · 10 <sup>-14</sup> (25°C)	IIA
pyridine		110-86-1	C <sub>5</sub> H <sub>5</sub> N	79.10	115	17	550		1.7	10.6			4.0 · 10 <sup>-6</sup> (25°C)	IIA
quinine	2,3-benzopyridine, benzo(b)pyridine, 1-azanaphthalene, quinoline	91-22-5	C <sub>9</sub> H <sub>7</sub> N	129.16	238	101	480		ca. 1	7			2.2 · 10 <sup>-6</sup> (25°C)	
salicylaldehyde	2-hydroxybenzaldehyde	90-02-8	C <sub>6</sub> H <sub>4</sub> OHCOH	122,12	197	78							1.64 · 10 <sup>-5</sup> (25°C)	
sebacic acid dibutyl ester	dibutyl sebacate, decane diacid dibutyl ester	109-43-3	C <sub>4</sub> H <sub>9</sub> OOC(CH <sub>2</sub> ) <sub>8</sub> COOC <sub>4</sub> H <sub>9</sub>	314,47	343	178	365						1.7 · 10 <sup>-9</sup> (30°C)	
succinonitrile		110-61-2	NCCH <sub>2</sub> CH <sub>2</sub> CN	80,09	265 ... 267	132							5.64 · 10 <sup>-2</sup> (-°C)	
sulfolane	tetrahydrothiophene-1,1-dioxide, tetramethylene sulfone	126-33-0	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> S	120,17	285	177							< 2 · 10 <sup>-6</sup> (30°C)	
tert-butanol	2-methyl-2-propanol, trimethyl carbinol, tert-butyl alcohol	75-65-0	(CH <sub>3</sub> ) <sub>3</sub> COH	74,12	83	11	470		1.4	10.9			2.66 · 10 <sup>-6</sup> (27°C)	IIA
tetrachloroethylene	tetrachloroethene, per, ethylene tetrachloride, perchloroethylene	127-18-4	CCl <sub>2</sub> = CCl <sub>2</sub>	165,83	121		> 650						5.55 · 10 <sup>-2</sup> (20°C)	
tetrafluoroethene	R 1114, tetrafluoroethylene	116-14-3	F <sub>2</sub> C=CF <sub>2</sub>	100.02	-72.63		240	4.1	10.5	59				IIA
tetrahydropyran	tetrahydro-2H-pyran, pentamethylene oxide, oxane	142-68-7	(CH <sub>2</sub> ) <sub>5</sub> O	86.13	88	-20		0.22			60	4.7		IIA
tetramethylurea	TMU	632-22-4	(CH <sub>3</sub> ) <sub>2</sub> NCON(CH <sub>3</sub> ) <sub>2</sub>	116.16	177	75							< 6 · 10 <sup>-6</sup> (-°C)	
toluene	methylbenzene, phenylmethane	108-88-3	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	92.14	111	6	535	0.24	1.0	7.8			8 · 10 <sup>-14</sup> (-°C)	IIA
trichloroethene	ethylentrchloride, TCE, trichlorethene, Tri	79-01-6	Cl <sub>2</sub> C=CHCl	131.39	87		410	510			150 000	26	8 · 10 <sup>-10</sup> (-°C)	IIA
triethyleneglycol	2,2'-(ethylenedioxy)diethanol, triglycol	112-27-6	HO(CH <sub>2</sub> ) <sub>2</sub> O(CH <sub>2</sub> ) <sub>2</sub> O(CH <sub>2</sub> ) <sub>2</sub> OH	150.18	291	156.4	370		0.9	9.2			8.4 · 10 <sup>-6</sup> (20°C)	
valeronitrile	pentanoic acid nitrile, butyl cyanide, 1-cyanobutane, valeric acid nitrile	110-59-8	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CN	83.1	141	34	520						1.2 · 10 <sup>-6</sup> (-°C)	
vinyl chloride	chloroethene, monochloroethylene, chloroethylene, VC, R 1140	75-01-4	CH <sub>2</sub> =CHCl	62.50	-13.4	-78	415		3.8	31				IIA
vinylidene chloride	1,1-dichloroethene, dichloroethylene	75-35-4	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	96.94	32	-25	530		6.5	15				IIA