

# Hazardous Gases and Vapours

## GROUP CLASSIFICATION AND AUTO-IGNITION TEMPERATURE TABLE

Material	Group	°F	°C	Material	Group	°F	°C
Acetaldehyde	C*	347	175	Cyclohexane	D	473	245
Acetic acid	D*	867	464	Cyclohexene	D	471	244
Acetic anhydride	D	600	316	Cyclohexanol	D	572	300
Acetone	D*	869	465	Cyclohexanone	D	473	245
Acetone cyanohydrin	D	1270	688	Cyclopropane	D*	938	503
Acetonitrile	D	975	524	p-Cymene	D	817	436
Actylene	A*	581	305	n-Decanol	D	550	288
Acrolein (inhibited)	B*	455	235	Decene	D	455	235
Acrylic acid	D	820	438	Diacetone alcohol	D	1118	603
Acrylonitrile	D*	898	481	o-Dichlorobenzene	D	1198	647
Allyl alcohol	C*	713	378	1.1 Dichloroethane	D	820	438
Allyl chloride	D	905	485	1.2 Dichloroethylene	D	860	460
Ammonia	D*	928	498	Dicyclopentadiene	C	937	503
n-Amyl acetate	D	680	360			743-	395-
Aniline	D	1139	615	Diethyl benzene	D	842	450
Benzene	D*	928	498	Diethylene glycol monobutyl ether	C	442	228
Benzyl chloride	D	1085	585	Diethylene glycol monomethyl ether	C	465	241
1,3-Butadiene	B*	788	420	Diethylamine	C*	594	312
Butane	D*	550	288	Diethyl ether	C*	320	160
1-Butanol	D*	650	343	N-N-Dimethyl aniline	C	700	371
2-Butanol	D*	761	405	Di-isobutylene	D*	736	390
n-Butyl acetate	D*	790	421	Di-isobutyl ketone	D	745	396
iso-Butyl acetate	D*	790	421	Di-isopropylamine	C	600	316
n-Butyl acrylate (inhibited)	D	559	293	Dimethylamine	C	752	400
Butylamine	D	594	312	Dimethyl formamide	D	833	455
Butylene	D	725	385	Dimethyl sulfate	D	370	188
n-Butyraldehyde	C*	425	218	1.4-Dioxane	C	356	180
n-Butyric acid	D	830	443	Dipentene	D	458	237
Carbon monoxide	C*	1128	609	Di-N-propylamine	C	570	299
Chlorobenzene	D	1099	593	Dodecene	D	491	255
		1038-	559-	Epichlorohydrin	C*	772	411
Cresol	D	1110	599	Ethane	D*	882	472
Crotonaldehyde	C*	450	232	Ethanol	D*	685	363
Cumene	D	795	424	Ethyl acetate	D*	800	427

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Material	Group	°F	°C	Material	Group	°F	°C	Material	Group	°F	°C
Ethyl acrylate (inhibited)	D*	702	372	Isobutyl acrylate	D	800	427	Nitrobenzene	D	900	482
Ethylamine	D	725	385	Isobutyraldehyde	C	385	196	Nitroethane	C	778	414
Ethyl benzene	D	810	432	Isophorone	D	860	460	Nitromethane	C	785	418
Ethyl chloride	D	966	519	Isoprene	D*	428	220	1-Nitropropane	C	789	421
Ethylene	C*	842	450	Isopropyl acetate	D	860	460	2-Nitropropane	C*	802	428
Ethylene chlorohydrin	D	797	425	Isoamyl alcohol	D	662	350	Nonane	D	401	205
Ethylene glycol monobutyl ether	C	460	238	Isopropylamine	D	756	402	Octane	D*	403	206
Ethylene glycol monobutyl ether acetate	C	645	340	Isopropyl ether	D*	830	443	Octene	D	446	230
Ethylenediamine	D*	725	385	Iso-octyl aldehyde	C	387	197	Pentane	D*	470	243
Ethylene dichloride	D*	775	413	Kerosene	D	410	210	1-Pentanol	D*	572	300
Ethylene glycol monoethyl ether	C	455	235	Liquefied petroleum gas	D	761-842	405-450	2-Pentanone	D	846	452
Ethylene glycol monoethyl ether acetate	C	715	379	Mesityl oxide	D*	652	344	1-Pentene	D	527	275
Ethylene glycol monomethyl ether	D	545	285	Methane	D*	999	537	Propane	D*	842	450
Ethylenimine	C*	608	320	Methanol	D*	725	385	1-Propanol	D*	775	413
Ethylene oxide	B*	804	429	Methyl acetate	D	850	454	2-Propanol	D*	750	399
Ethyl formate	D	851	455	Methyl acrylate	D	875	468	Propionaldehyde	C	405	207
2-Ethylhexaldehyde	C	375	191	Methylamine	D	806	430	Propionic acid	D	870	466
2-Ethyl hexanol	D	448	231	Methyl n-amyl ketone	D	740	393	Propionic anhydride	D	545	285
2-Ethyl hexyl acrylate	D	485	252	Methylcyclohexane	D	482	250	n-Propyl acetate	D	842	450
Ethyl mercaptan	C*	572	300	Methylcyclohexanol	D	565	296	Propylene	D*	851	455
Formaldehyde (gas)	B	795	424	Methyl ether	C*	662	350	Propylene dichloride	D*	1035	557
Formic acid (90%)	D	813	434	Methyl ethyl ketone	D*	759	404	Propylene oxide	B*	840	449
Fule oils	D	410-765	210-407	Methyl formal	C*	460	238	n-Propyl ether	C	419	215
Furfural	C	600	316	Methyl formate	D	840	449	Propyl nitrate	B*	347	175
Furfuryl alcohol	C	915	490	Methyl isobutyl ketone	D*	840	449	Pyridine	D*	900	482
Gasoline	D*	536-880	280-471	Methyl isocyanate	D	994	534	Styrene	D*	914	490
Heptane	D*	399	204	Methyl methacrylate	D	792	422	Tetrahydrofuran	C*	610	321
Heptene	D	500	260	2-Methyl-1-propanol	D*	780	416	Tetrahydronaphthalene	D	725	385
Hexane	D*	437	225	2-Methyl-2-propanol	D*	892	478	Toluene	D*	896	480
2-Hexanone	D	795	424	alpha-Methyl styrene	D	1066	574	Turpentine	D	488	253
Hexene	D	473	245	Monoethanolamine	D	770	410	Unsymmetrical dimethyl hydrazine (UDMH)	C*	480	249
Hydrazine	C	74-518	23-270	Monoisopropanolamine	D	705	374	Valeraldehyde	C	432	222
Hydrogen	B*	968	520	Monomethyl aniline	C	900	482	Vinyl acetate	D*	756	402
Hydrogen cyanide	C*	1000	538	Monomethyl hydrazine	C	382	194	Vinyl chloride	D*	882	472
Hydrogen sulfide	C*	500	260	Morpholine	C*	590	310	Vinylidene chloride	D	1058	570
Isoamyl acetate	D	680	360	Naphtha (coal tar)	D	531	277	Vinyl toluene	ti	921	494
								Xylenes	D*	867-984	464-529

\*Material has been classified by test