

# Ignition Temperatures and Group Classifications for Flammable Gases and Vapors

MATERIAL	GROUP	AUTOIGNITION TEMPERATURE	
		DEGREES F	DEGREES C
ACETALDEHYDE	C	347	175
ACETIC ACID	D	867	464
ACETIC ANHYDRIDE	D	600	316
ACETONE	D	869	465
ACETONE CYANOHYDRIN	D	1270	688
ACETONITRILE	D	975	524
ACETYLENE	A	581	305
ACROLEIN (INHIBITED)	B(C)	455	285
ACRYLIC ACID	D	820	438
ACRYLONITRILE	D	898	481
ALLYL ALCOHOL	C	713	378
ALLYL CHLORIDE	D	905	485
ALPHA-METHYL STYRENE	D	1066	574
AMMONIA	D	928	498
n-AMYL ACETATE	D	680	360
ANILINE	D	1139	615
BENZENE	D	928	498
BENZYL CHLORIDE	D	1085	585
1.3-BUTADIENE	B(D)	788	420
BUTANE	D	550	288
1-BUTANOL	D	650	343
2-BUTANOL	D	761	405
n-BUTYL ACETATE	D	790	421
n-BUTYL ACRYLATE (INHIBITED)	D	559	293
BUTYLAMINE	D	594	312
BUTYLENE	D	725	385
n-BUTYRALDEHYDE	C	425	218
n-BUTYRIC ACID	D	830	443
CARBON DISULFIDE	*	194	90
CARBON MONOXIDE	C	1128	609
CHLOROBENZENE	D	1099	593
CRESOL	D	1038-1110	559-599
CROTONALDEHYDE	C	450	232
CUMENE	D	795	424
CYCLOHEXANE	D	473	245
CYCLOHEXANOL	D	572	300
CYCLOHEXANONE	D	473	245
CYCLOHEXENE	D	471	244
CYCLOPROPANE	D	938	503
p-CYMENE	D	817	436
n-DECANOL	D	550	288
DECENE	D	455	235
DI-ISOBUTYL KETONE	D	745	396

\*Carbon Disulfide has characteristics which require safeguards beyond those required for any of the above groups.