

FUELS AND PROPERTIES

PROPERTIES	DIESEL	ETHANOL	(H2)METHANOL	(H2)AMMONIA	PROPANE	EURO 95	LNG
RON	20	108.7	109.6	130	112	95	120
LHV MJ/KG	43.4	26.7	19.93	22	46.36	43.4	50
DENSITY KG/L	0.832	0.789	0.792	0.6	0.546	0.737	0.45
LHV MJ/L	36.11	21.07	15.78	13.2	25.3	32	22.5
HEAT OF VAP J/G	-	841	1104	1370	-	349	-
BOIL TEMP °C	-	78	65	-33	-42	27 TO 225	-160
COOLING EFFECT -	-	12.9	23.5	-	-	-	-

PROPERTIES	DIESEL	CNG 200 BAR	H2 350 BAR	ISO-OCTANE	LPG	ISO-BUTANE	1-PENTANOL
RON	20	118	130	100	104	102	< 80
LHV MJ/KG	43.4	38	119.9	44.31	46.12	45.61	34.73
DENSITY KG/L	0.832	0.166	0.028	0.692	0.567	0.563	0.815
LHV MJ/L	36.11	6.31	3.412	30.49	26.16	25.68	26.2
HEAT OF VAP J/G	-	-	-	307	-	-	308
BOIL TEMP °C	-	-	-	99	-42 TO 0	-12	138
COOLING EFFECT -	-	-	-	2.8	-	-	-

PROPERTIES	DIESEL	N-BUTANE	1-PROPANOL	I-PROPANOL	T-BUTANOL	1-BUTANOL	ACETONE
RON	20	92	118	118	106	92	117
LHV MJ/KG	43.4	45.75	30.68	30.45	32.58	33.08	28.55
DENSITY KG/L	0.832	0.6	0.803	0.786	0.781	0.809	0.79
LHV MJ/L	36.11	27.45	24.64	23.93	25.45	25.92	22.62
HEAT OF VAP J/G	-	-	790	749	553	586	518
BOIL TEMP °C	-	0	97	82	82	83	56
COOLING EFFECT -	-	-	10.4	10	8.5	-	7.7

