

Zahlentafel 15

	Formel	Molgew	Fp u. Kp °C	Wichte g/cm <sup>3</sup>	Luftbedarf kg/kg	Mol Luft je Mol Kraftst.	Mol Abgas je Mol Kraftst.	Volumenvergrößerung ohne   mit Berücks. d. Kraftst. Vol. %   %		Heizwert Hu			Aufwand		Gemischheizwert ohne   mit Berücks. d. Kraftst. Vol. kcal/kg m <sup>3</sup>		Luftheizwerte			Verbren- nungst. °C
								kcal/g Mol	kcal/kg	kcal/l	g/10 <sup>3</sup> kcal	cm <sup>3</sup> /10 <sup>3</sup> kcal	kcal/Mol L.	kcal/m <sup>3</sup> Luft	kcal/kg Luft					
Methan	CH <sub>4</sub>	16	-184 - 161	0,655	17,20	9,50	9,50	10,88	9,50	187,4	11 700	7 660	85,4	130,6	808	730	19 700	808	680	2 250
Aethan	C <sub>2</sub> H <sub>6</sub>	30	-172 - 93	0,122	16,10	16,70	18,20	9,00	2,80	337,6	11 200	13 750	89,3	72,7	827	780	20 200	827	696	2 380
Propan	C <sub>3</sub> H <sub>8</sub>	44	-190 - 45	0,535	15,66	23,80	25,80	8,40	4,00	485,8	11 000	5 900	91,0	170,0	835	802	20 400	835	702	2 410
Butan	C <sub>4</sub> H <sub>10</sub>	58	-135 + 1	0,600	15,45	29,80	32,50	7,90	4,70	632,1	10 900	6 540	91,7	153,0	868	840	21 200	868	731	2 425
Methanol	CH <sub>3</sub> OH	32	-98 65	0,790	6,46	7,15	8,65	21,00	6,13	148,8	4 650	3 675	215,0	272,0	860	754	20 800	860	725	2 330
Heptan	C <sub>7</sub> H <sub>16</sub>	100	-97 + 98	0,688	15,18	52,40	56,40	7,64	5,62	105,3	10 530	7 690	95,0	130,0	822	807	20 150	822	694	2 400
+ 1/2 N <sub>2</sub> O	C <sub>7</sub> H <sub>16</sub> +1/2N <sub>2</sub> O	122	—	0,747	12,15	51,20	55,90	8,20	6,08	106,3	8 710	6 500	115,0	154,0	841	827	20 750	850	717	2 430
+ 1 N <sub>2</sub> O	C <sub>7</sub> H <sub>16</sub> +N <sub>2</sub> O	144	—	0,794	10,05	50,00	55,50	8,80	6,70	107,3	7 450	5 940	134,0	168,0	861	845	21 450	879	742	2 460
+ 2 N <sub>2</sub> O	C <sub>7</sub> H <sub>16</sub> +2N <sub>2</sub> O	188	—	0,865	7,34	47,70	54,60	9,90	7,70	109,3	5 810	5 110	172,0	195,6	900	882	22 950	940	792	2 540
+ 3 N <sub>2</sub> O	C <sub>7</sub> H <sub>16</sub> +3N <sub>2</sub> O	232	—	0,918	5,64	45,25	53,80	10,30	8,44	111,3	4 800	4 400	208,4	227,0	944	925	24 000	1006	850	2 610
+ 1/2 O <sub>2</sub>	C <sub>7</sub> H <sub>16</sub> +1/2O <sub>2</sub>	116	—	0,728	12,48	50,00	54,50	7,93	5,83	105,3	7 280	5 590	137,0	176,0	854	836	21 050	862	728	2 460
+ 1 O <sub>2</sub>	C <sub>7</sub> H <sub>16</sub> +1O <sub>2</sub>	132	—	0,762	10,44	47,60	52,60	8,00	5,84	105,3	7 980	6 080	125,3	165,0	886	870	22 100	906	764	2 530
Propan	C <sub>3</sub> H <sub>8</sub>	44	-190 - 45	0,560	15,66	23,80	25,82	8,40	4,00	485,8	11 040	5 900	91,0	170,0	835	802	20 400	835	704	2 410
Propanol	C <sub>3</sub> H <sub>7</sub> OH	60	-127	0,804	10,33	21,40	23,95	11,90	6,90	437,0	7 280	5 860	137,0	171,0	835	798	20 400	835	704	2 350
N-Propan	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	89 1/2	←60 132 120	1,006 0,989	5,17	17,85	21,10	18,20	11,90	441,6	4 960	5 010	202,0	200,0	1 012	960	24 700	1 012	854	2 600
P+1 N <sub>2</sub> O	C <sub>3</sub> H <sub>8</sub> +N <sub>2</sub> O	88	—	0,767	7,06	21,45	24,95	11,14	6,39	508,8	5 740	4 410	174,0	227,0	923	884	23 600	965	814	2 560
P+2 N <sub>2</sub> O	C <sub>3</sub> H <sub>8</sub> +2N <sub>2</sub> O	132	—	0,876	4,18	21,05	24,08	14,25	9,05	526,0	3 980	3 490	251,0	287,0	1 020	977	27 600	1 130	9530	2 730
P+4 N <sub>2</sub> O	C <sub>3</sub> H <sub>8</sub> +4N <sub>2</sub> O	220	—	0,988	1,88	18,30	22,30	21,85	15,50	566,0	2 570	2 540	389,0	394,0	1 265	1 200	39 600	1 620	1 370	3 090
N-Methan	CH <sub>3</sub> NO <sub>2</sub>	61	-29 102	1,130	1,64	3,57	5,82	63,00	27,40	154,0	2 520	2 900	397,0	345,0	1 765	1 380	43 100	1 765	1 490	3 070
N-Aethan	C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub>	75	←60 114	1,050	4,13	10,70	13,50	26,00	15,00	295,0	3 940	4 190	254,0	239,0	1 130	1 030	27 600	1 130	952	2 690
N-Propan	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	89 1/2	←60 132 120	1,006 0,989	5,80	17,85	21,10	18,20	11,90	441,6	4 960	5 010	202,0	~200,0	1 012	960	24 700	1 012	854	2 600
N-Butan	C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>	103 1/2	←60 158 138	0,965 0,968	7,01	25,00	28,80	15,20	10,80	589,6	5 700	5 520	175,5	~181,0	966	928	23 600	966	815	2 580
N-Benzol	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	123	9 221	1,200	7,00	29,75	32,50	9,25	5,70	715,0	5 810	6 970	172,0	144,0	983	952	24 000	984	830	2 740

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K-3