

FIG. 23-2
Physical Constants

Note: Numbers in this table do not have uncertainties greater than 1 part in 1000. In some cases extra digits have been added to achieve internal consistency or to permit recalculation of important values.

Index	Chemical Name	Formula	Molar Mass (Molecular Weight)	Boiling Point, ^a °C (°F)	Freezing Point, ^a °C (°F)	Critical Temp., ^a °C (°F)	Critical Pressure, ^a atm (psia)	Critical Constants			Index
								Volume, ^b cm ³ (in. ³)	Temperature, ^b °C (°F)	Density, ^b g/cm ³ (lb/in. ³)	
1	Methane	CH ₄	16.042	-162.03	-182.03	-82.05	45.8	160.4	-162.0	0.423	1
2	Ethane	C ₂ H ₆	30.069	-88.6	-182.5	-88.6	48.3	186.7	-88.6	0.546	2
3	Propane	C ₃ H ₈	44.096	-42.1	-187.6	-42.1	52.1	247.0	-42.1	0.581	3
4	Isobutane	C ₄ H ₁₀	58.123	-10.8	-138.3	-10.8	55.8	307.0	-10.8	0.559	4
5	n-Butane	C ₄ H ₁₀	58.123	-0.5	-138.3	-0.5	55.8	307.0	-0.5	0.559	5
6	Isopentane	C ₅ H ₁₂	72.149	9.1	-119.7	9.1	61.6	360.6	9.1	0.531	6
7	n-Pentane	C ₅ H ₁₂	72.149	36.1	-119.7	36.1	61.6	360.6	36.1	0.531	7
8	Isopentane	C ₅ H ₁₂	72.149	9.1	-119.7	9.1	61.6	360.6	9.1	0.531	8
9	n-Hexane	C ₆ H ₁₄	86.178	15.7	-95.3	15.7	68.8	427.0	15.7	0.505	9
10	2-Methylpentane	C ₆ H ₁₄	86.178	15.7	-95.3	15.7	68.8	427.0	15.7	0.505	10
11	3-Methylpentane	C ₆ H ₁₄	86.178	15.7	-95.3	15.7	68.8	427.0	15.7	0.505	11
12	Isopentane	C ₅ H ₁₂	72.149	9.1	-119.7	9.1	61.6	360.6	9.1	0.531	12
13	2,2-Dimethylbutane	C ₆ H ₁₄	86.178	15.7	-95.3	15.7	68.8	427.0	15.7	0.505	13
14	n-Heptane	C ₇ H ₁₆	100.202	93.6	-94.4	93.6	76.3	494.5	93.6	0.479	14
15	2-Methylhexane	C ₇ H ₁₆	100.202	93.6	-94.4	93.6	76.3	494.5	93.6	0.479	15
16	3-Methylhexane	C ₇ H ₁₆	100.202	93.6	-94.4	93.6	76.3	494.5	93.6	0.479	16
17	2-Ethylpentane	C ₇ H ₁₆	100.202	93.6	-94.4	93.6	76.3	494.5	93.6	0.479	17
18	2,2-Dimethylpentane	C ₇ H ₁₆	100.202	93.6	-94.4	93.6	76.3	494.5	93.6	0.479	18
19	2,4-Dimethylpentane	C ₇ H ₁₆	100.202	93.6	-94.4	93.6	76.3	494.5	93.6	0.479	19
20	2,3-Dimethylpentane	C ₇ H ₁₆	100.202	93.6	-94.4	93.6	76.3	494.5	93.6	0.479	20
21	Triptane	C ₇ H ₁₆	100.202	93.6	-94.4	93.6	76.3	494.5	93.6	0.479	21
22	n-Octane	C ₈ H ₁₈	114.229	125.7	-56.8	125.7	83.9	569.0	125.7	0.444	22
23	2-Methylheptane	C ₈ H ₁₈	114.229	125.7	-56.8	125.7	83.9	569.0	125.7	0.444	23
24	3-Methylheptane	C ₈ H ₁₈	114.229	125.7	-56.8	125.7	83.9	569.0	125.7	0.444	24
25	n-Nonane	C ₉ H ₂₀	128.255	150.8	-50.8	150.8	94.3	639.0	150.8	0.419	25
26	n-Decane	C ₁₀ H ₂₂	142.282	174.1	-29.8	174.1	106.3	714.0	174.1	0.395	26
27	1-Methyldecane	C ₁₁ H ₂₄	156.309	197.4	-25.4	197.4	118.3	790.0	197.4	0.371	27
28	2-Methylundecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	28
29	3-Methylundecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	29
30	4-Methylundecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	30
31	2-Ethyldecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	31
32	2,2-Dimethyldecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	32
33	2,4-Dimethyldecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	33
34	2,3-Dimethyldecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	34
35	Triundecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	35
36	n-Dodecane	C ₁₂ H ₂₆	170.336	219.7	-10.8	219.7	130.3	866.0	219.7	0.347	36
37	1-Methyldodecane	C ₁₃ H ₂₈	184.363	242.0	5.1	242.0	142.3	942.0	242.0	0.323	37
38	2-Methyltridecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	38
39	3-Methyltridecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	39
40	4-Methyltridecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	40
41	2-Ethyltridecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	41
42	2,2-Dimethyltridecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	42
43	2,4-Dimethyltridecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	43
44	2,3-Dimethyltridecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	44
45	Trihexadecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	45
46	n-Tetradecane	C ₁₄ H ₃₀	198.390	264.3	15.4	264.3	154.3	1018.0	264.3	0.299	46
47	1-Methyltetradecane	C ₁₅ H ₃₂	212.417	286.6	25.7	286.6	166.3	1094.0	286.6	0.275	47
48	2-Methylpentadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	48
49	3-Methylpentadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	49
50	4-Methylpentadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	50
51	2-Ethylpentadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	51
52	2,2-Dimethylpentadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	52
53	2,4-Dimethylpentadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	53
54	2,3-Dimethylpentadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	54
55	Triheptadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	55
56	n-Hexadecane	C ₁₆ H ₃₄	226.444	308.9	36.0	308.9	178.3	1170.0	308.9	0.251	56
57	1-Methylhexadecane	C ₁₇ H ₃₆	240.471	331.2	46.3	331.2	190.3	1246.0	331.2	0.227	57
58	2-Methylheptadecane	C ₁₈ H ₃₈	254.498	353.5	56.6	353.5	202.3	1322.0	353.5	0.203	58
59	3-Methylheptadecane	C ₁₈ H ₃₈	254.498	353.5	56.6	353.5	202.3	1322.0	353.5	0.203	59
60	4-Methylheptadecane	C ₁₈ H ₃₈	254.498	353.5	56.6	353.5	202.3	1322.0	353.5	0.203	60
61	2-Ethylheptadecane	C ₁₈ H ₃₈	254.498	353.5	56.6	353.5	202.3	1322.0	353.5	0.203	61
62	2,2-Dimethylheptadecane	C ₁₈ H ₃₈	254.498	353.5	56.6	353.5	202.3	1322.0	353.5	0.203	62
63	2,4-Dimethylheptadecane	C ₁₈ H ₃₈	254.498	353.5	56.6	353.5	202.3	1322.0	353.5	0.203	63
64	2,3-Dimethylheptadecane	C ₁₈ H ₃₈	254.498	353.5	56.6	353.5	202.3	1322.0	353.5	0.203	64

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