

Physical Properties of Refrigerants

R1234yf

Environmental Classification	HFO
Molecular weight (g/mol)	114,0
Boiling point (°C)	-29,4
Critical temperature (°C)	94,7
Critical pressure (bar)	33,81
Critical density (Kg/m ³)	475,55
Vapour pressure (21,1°C) (bar)	6,07
Vapour pressure (54,4°C) (bar)	14,2
Density (Kg/m ³)	1100
Solubility in water (24°C) (mg/l)	198,2
Sliding temperature or glide (K)	0
Safety classification	A2L
Lower flammability limit (Kg/m ³)	0,289
Auto-ignition temperature (°C)	405
ODP -	0
GWP -	4 *

Pressure- Temp Chart

Temp °C	R1234yf psig
-46	-55
-44	-50
-42	-45
-40	-39
-38	-32
-36	-26
-34	-19
-32	-11
-30	-2
-28	7
-26	17
-24	27
-22	38
-20	50
-18	62
-16	75
-14	90
-12	105
-10	121
-8	137
-6	155
-4	174
-2	194
0	214
2	236
4	260
6	284
8	309
10	336
12	364
14	393
16	424
18	456
20	490
22	525
24	562
26	600
28	640
30	681
32	725
34	770
36	817
38	866
40	916
42	969
44	1024
46	1080
48	1139
50	1200
52	1264
54	1329
56	1397
58	1467
60	1539

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