

R-236fa

1,1,1,3,3,3 - HEXAFLUOROPROPANE $CF_3-CH_2-CF_3$

Molecular weight (g/mol)	152.04
Melting point (°C)	N/A
Boiling point (at 1.013 bar)	-1.49
Temperature glide at 1.013 bar (K)	0.00
Critical temperature (°C)	124.9
Critical pressure (bar absolute)	32.00
Specific heat (liquid) at + 25°C (kJ/kg.K)	1.238
Specific heat (vapour) at 1.013 bar and + 25°C (kJ/kg.K)	0.838
Thermal capacity ratio (Cp/Cv) at + 25°C and 1.013 bar	1.084
Viscosity (liquid) at + 25°C in Centipoise (10 ⁻³ Pa.s)	0.285
Surface tension at + 25°C in dyne per centimetre (10 ⁻³ N/m)	9.59
Classification NF-EN 378	A1
GWP (IPCC 4)	9810

🔍 Main applications

R-236fa is a hydrofluorocarbon (HFC) used mainly in air-conditioning systems replacing R-114 and R-124, such as military seaborne equipment water coolers.

It can also be used for rolling bridge / crane air-conditioning. Today, the R-1234ze can be considered as a replacement for new installations in certain applications.

🔍 Commercial specifications

Guaranteed purity: ≥ 99.5 % weight.

Water content: ≤ 10 ppm weight.

Non-condensable content (gas phase): ≤ 1.5 % volume.

Chloride ion test : negative.

High-boiling residues: ≤ 0.01 % volume.

Total acidity (HCl): ≤ 1 ppm weight.

🔍 Oils

Use a polyol ester (POE) oil.

Check with **Climalife** regarding the viscosity of the oil selected for your application, and the miscibility with the fluid under consideration.

🔍 Regulation

The use and implementation of R-236fa are governed by EU Regulation n° 517/2014.

The recovery of R-236fa is mandatory under EU Regulation n° 517/2014.

(Refer to the regulations enforced in each country).

Thermodynamic properties of R-236fa - Saturated state

Absolute pressure P (bar)	LIQUID					VAPOUR					Latent heat Lv (kJ/kg)
	Bubble point t' (°C)	Volume v' (dm ³ /kg)	Density ρ' (kg/dm ³)	Enthalpy h' (kJ/kg)	Entropy s' (kJ/kg.K)	Dew point t'' (°C)	Volume v'' (m ³ /kg)	Density ρ'' (kg/m ³)	Enthalpy h'' (kJ/kg)	Entropy s'' (kJ/kg.K)	
0.002	-90	0.589	1.699	94.457	0.532	-90.0	41.718	0.024	297.761	1.642	203.304
0.004	-85	0.593	1.685	100.403	0.564	-85.0	25.067	0.040	300.948	1.629	200.545
0.007	-80	0.598	1.672	106.315	0.595	-80.0	15.577	0.064	304.168	1.619	197.853
0.011	-75	0.603	1.658	112.196	0.625	-75.0	9.982	0.100	307.420	1.610	195.224
0.017	-70	0.608	1.644	118.053	0.654	-70.0	6.578	0.152	310.702	1.602	192.649
0.026	-65	0.613	1.631	123.891	0.682	-65.0	4.447	0.225	314.014	1.596	190.123
0.038	-60	0.619	1.617	129.715	0.710	-60.0	3.078	0.325	317.353	1.590	187.638
0.055	-55	0.624	1.603	135.530	0.737	-55.0	2.177	0.459	320.718	1.586	185.188
0.077	-50	0.629	1.589	141.339	0.763	-50.0	1.570	0.637	324.106	1.582	182.767
0.107	-45	0.635	1.575	147.147	0.789	-45.0	1.153	0.867	327.514	1.579	180.367
0.146	-40	0.641	1.561	152.959	0.814	-40.0	0.861	1.162	330.940	1.577	177.982
0.197	-35	0.647	1.546	158.777	0.839	-35.0	0.653	1.532	334.381	1.576	175.604
0.260	-30	0.653	1.532	164.606	0.863	-30.0	0.502	1.992	337.835	1.575	173.229
0.340	-25	0.659	1.517	170.449	0.887	-25.0	0.391	2.557	341.297	1.575	170.848
0.438	-20	0.666	1.502	176.310	0.910	-20.0	0.308	3.244	344.765	1.576	168.455
0.557	-15	0.672	1.487	182.193	0.933	-15.0	0.246	4.069	348.237	1.576	166.044
0.701	-10	0.679	1.472	188.099	0.956	-10.0	0.198	5.053	351.708	1.577	163.609
0.873	-5	0.686	1.457	194.034	0.978	-5.0	0.161	6.216	355.176	1.579	161.142
1.013	-1.49	0.692	1.446	198.214	0.993	-1.49	0.140	7.151	357.604	1.580	159.390
1.078	0	0.694	1.441	200.000	1.000	0.0	0.132	7.582	358.637	1.581	158.637
1.317	5	0.701	1.426	206.000	1.022	5.0	0.109	9.175	362.088	1.583	156.088
1.597	10	0.709	1.410	212.038	1.043	10.0	0.091	11.021	365.526	1.585	153.487
1.921	15	0.718	1.393	218.117	1.064	15.0	0.076	13.150	368.945	1.588	150.828
2.294	20	0.726	1.377	224.241	1.085	20.0	0.064	15.593	372.344	1.591	148.103
2.719	25	0.735	1.360	230.413	1.106	25.0	0.054	18.387	375.715	1.593	145.303
3.204	30	0.745	1.342	236.636	1.127	30.0	0.046	21.570	379.055	1.596	142.419
3.751	35	0.755	1.325	242.916	1.147	35.0	0.040	25.186	382.357	1.600	139.441
4.367	40	0.765	1.307	249.257	1.167	40.0	0.034	29.284	385.615	1.603	136.358
5.057	45	0.777	1.288	255.663	1.187	45.0	0.029	33.922	388.820	1.606	133.157
5.827	50	0.788	1.269	262.139	1.207	50.0	0.026	39.163	391.964	1.609	129.825
6.683	55	0.801	1.249	268.693	1.227	55.0	0.022	45.083	395.038	1.612	126.345
7.630	60	0.814	1.228	275.331	1.247	60.0	0.019	51.770	398.030	1.616	122.699
8.676	65	0.829	1.207	282.061	1.267	65.0	0.017	59.331	400.929	1.619	118.868
9.826	70	0.844	1.184	288.893	1.287	70.0	0.015	67.894	403.718	1.621	114.825
11.088	75	0.862	1.161	295.839	1.307	75.0	0.013	77.618	406.380	1.624	110.541
12.470	80	0.880	1.136	302.914	1.326	80.0	0.011	88.706	408.890	1.627	105.976
13.978	85	0.901	1.109	310.136	1.346	85	0.010	101.418	411.217	1.629	101.080
15.623	90	0.925	1.081	317.532	1.366	90.0	0.009	116.107	413.319	1.630	95.788
17.413	95	0.952	1.050	325.135	1.387	95.0	0.008	133.263	415.140	1.631	90.005
19.358	100	0.984	1.016	332.998	1.407	100	0.007	153.608	416.595	1.632	83.597
21.471	105	1.022	0.978	341.199	1.429	105.0	0.006	178.274	417.566	1.631	76.357
23.765	110	1.071	0.934	349.874	1.451	110.0	0.005	209.221	417.805	1.628	67.931
26.258	115	1.138	0.879	359.293	1.475	115.0	0.004	250.420	416.915	1.623	57.622
28.974	120	1.245	0.803	370.188	1.502	120.0	0.003	312.738	413.758	1.613	43.570

Thermodynamic properties of R-236fa - (superheated vapour) - Volume (dm³/kg)

Sat. Temp. °C	Sat. Pressure bar	Superheat (°C)																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-90	0.002	41717.612	42858.144	43998.589	45138.955	46279.248	47419.475	48559.640	49699.748	50839.800	51979.812	53119.775	54259.697	55399.580	56539.429	57679.245	58819.031	59958.790	61098.523	62238.233	63377.922	64517.591
-85	0.004	25066.710	25734.357	26401.925	27069.420	27736.848	28404.214	29071.524	29738.781	30406.000	31073.154	31740.277	32407.361	33074.411	33741.428	34408.415	35075.375	35742.310	36409.221	37076.110	37742.980	38409.832
-80	0.007	15577.275	15981.911	16386.475	16790.971	17195.406	17599.784	18004.109	18408.386	18812.618	19216.809	19620.961	20025.079	20429.164	20833.219	21237.246	21641.249	22045.227	22449.185	22853.122	23257.042	23660.944
-75	0.011	9981.786	10234.947	10488.041	10741.073	10994.048	11246.971	11499.845	11752.674	12005.462	12258.211	12505.926	12753.608	13001.260	13248.884	13496.483	13744.059	14026.613	14321.147	14618.663	14918.162	15219.646
-70	0.017	6577.913	6741.000	6904.026	7066.994	7229.910	7392.777	7555.599	7718.379	7881.121	8043.828	8206.503	8369.147	8531.764	8694.355	8856.923	9019.469	9181.995	9344.500	9506.995	9669.471	9831.931
-65	0.026	4447.219	4555.148	4663.019	4770.873	4878.606	4986.330	5094.015	5201.657	5309.261	5416.842	5524.388	5631.906	5739.399	5846.868	5954.316	6061.744	6169.153	6276.546	6383.923	6491.286	6598.636
-60	0.038	3078.007	3151.230	3224.400	3297.521	3370.597	3443.631	3516.626	3589.586	3662.513	3735.409	3808.278	3881.122	3953.944	4026.740	4099.518	4172.278	4245.022	4317.749	4390.462	4463.162	4535.850
-55	0.055	2176.613	2227.449	2278.234	2328.974	2379.672	2430.331	2480.954	2531.544	2582.104	2632.636	2683.143	2733.626	2784.067	2834.528	2884.950	2935.356	2985.746	3036.122	3086.484	3136.835	3187.174
-50	0.077	1569.834	1605.889	1641.897	1677.863	1713.790	1749.681	1785.538	1821.365	1857.164	1892.937	1928.687	1964.414	2000.122	2035.811	2071.483	2107.139	2142.781	2178.409	2214.026	2249.631	2285.225
-45	0.107	1152.890	1178.976	1205.018	1231.020	1256.986	1282.919	1308.820	1334.694	1360.541	1386.365	1412.166	1437.947	1463.710	1489.456	1515.186	1540.901	1566.603	1592.292	1617.971	1643.639	1669.297
-40	0.146	860.891	880.116	899.301	918.450	937.564	956.648	975.702	994.731	1013.735	1032.717	1051.678	1070.621	1089.547	1108.457	1127.352	1146.234	1165.103	1183.961	1202.808	1221.646	1240.475
-35	0.197	652.761	667.178	681.558	695.904	710.217	724.502	738.760	752.993	767.205	781.395	795.567	809.721	823.859	837.982	852.092	866.190	880.276	894.351	908.417	922.473	936.521
-30	0.260	501.970	512.958	523.912	534.833	545.725	556.589	567.429	578.245	589.041	599.818	610.577	621.320	632.049	642.763	653.463	664.150	674.835	685.504	696.165	706.817	717.461
-25	0.340	391.052	399.556	408.026	416.467	424.880	433.267	441.631	449.974	458.298	466.603	474.892	483.166	491.427	499.674	507.910	516.135	524.350	532.556	540.753	548.943	557.125
-20	0.438	308.306	314.981	321.626	328.242	334.832	341.398	347.943	354.468	360.974	367.464	373.939	380.399	386.847	393.283	399.707	406.122	412.527	418.924	425.313	431.694	438.068
-15	0.557	245.760	251.072	256.354	261.610	266.841	272.050	277.238	282.408	287.561	292.698	297.820	302.930	308.028	313.114	318.190	323.257	328.315	333.364	338.407	343.442	348.471
-10	0.701	197.903	202.183	206.436	210.664	214.868	219.051	223.215	227.362	231.493	235.609	239.711	243.801	247.880	251.948	256.007	260.059	264.099	268.133	272.160	276.180	280.195
-5	0.873	160.863	164.355	167.820	171.261	174.680	178.079	181.460	184.825	188.174	191.510	194.833	198.145	201.445	204.736	208.018	211.292	214.558	217.816	221.068	224.314	227.555
-1.49	1.013	139.833	142.880	145.902	148.901	151.878	154.837	157.778	160.703	163.613	166.511	169.396	172.270	175.134	177.988	180.834	183.672	186.502	189.325	192.142	194.954	197.759
0	1.078	131.889	134.769	137.624	140.457	143.268	146.061	148.837	151.597	154.343	157.075	159.796	162.506	165.206	167.896	170.578	173.252	175.919	178.579	181.233	183.881	186.524
5	1.317	108.996	111.398	113.776	116.133	118.469	120.788	123.090	125.378	127.652	129.914	132.164	134.404	136.634	138.856	141.070	143.276	145.475	147.668	149.855	152.036	154.213
10	1.597	90.738	92.762	94.763	96.744	98.705	100.649	102.578	104.493	106.394	108.284	110.164	112.033	113.893	115.745	117.590	119.427	121.258	123.082	124.901	126.715	128.524
15	1.921	76.407	77.771	79.471	81.152	82.814	84.460	86.091	87.708	89.313	90.907	92.491	94.065	95.631	97.188	98.738	100.282	101.819	103.351	104.877	106.399	107.915
20	2.294	64.130	65.611	67.069	68.509	69.930	71.336	72.728	74.106	75.473	76.829	78.175	79.512	80.841	82.162	83.476	84.784	86.086	87.382	88.674	89.960	91.242
25	2.719	54.386	55.670	56.933	58.177	59.404	60.615	61.812	62.997	64.170	65.333	66.487	67.632	68.769	69.899	71.022	72.138	73.250	74.356	75.457	76.553	77.645
30	3.204	46.361	47.485	48.588	49.672	50.739	51.791	52.830	53.857	54.872	55.878	56.874	57.862	58.842	59.816	60.783	61.744	62.699	63.650	64.596	65.537	66.474
35	3.751	39.705	40.697	41.669	42.621	43.558	44.479	45.388	46.284	47.169	48.045	48.912	49.771	50.623	51.467	52.306	53.139	53.966	54.789	55.607	56.421	57.231
40	4.367	34.148	35.032	35.895	36.739	37.567	38.380	39.180	39.969	40.747	41.515	42.275	43.027	43.771	44.510	45.242	45.969	46.690	47.407	48.120	48.828	49.533
45	5.057	29.480	30.274	31.047	31.801	32.539	33.262	33.972	34.670	35.358	36.037	36.707	37.370	38.026	38.675	39.319	39.957	40.590	41.219	41.843	42.464	43.081
50	5.827	25.534	26.255	26.953	27.632	28.294	28.941	29.576	30.198	30.811	31.415	32.010	32.598	33.179	33.754	34.323	34.887	35.446	36.000	36.551	37.098	37.641
55	6.683	22.181	22.840	23.476	24.092	24.690	25.274	25.845	26.404	26.953	27.493	28.025	28.550	29.068	29.579	30.086	30.587	31.083	31.576	32.064	32.549	33.030
60	7.630	19.316	19.924	20.508	21.070	21.615	22.145	22.662	23.167	23.663	24.149	24.627	25.098	25.562	26.021	26.474	26.922	27.365	27.804	28.239	28.671	29.100
65	8.676	16.855	17.421	17.961	18.479	18.978	19.463	19.934	20.393	20.842	21.283	21.715	22.140	22.559	22.972	23.379	23.781	24.180	24.573	24.964	25.350	25.733
70	9.826	14.729	15.261	15.765	16.245	16.707	17.152	17.584	18.014	18.414	18.815	19.208	19.594	19.973	20.347	20.715	21.079	21.438	21.793	22.144	22.492	22.837
75	11.088	12.884	13.389	13.863	14.312	14.741	15.153	15.552	15.938	16.314	16.682	17.041	17.393	17.738	18.078	18.413	18.742	19.068	19.389	19.707	20.022	20.333
80	12.470	11.273	11.759	12.209	12.631	13.033	13.417	13.787	14.144	14.491	14.829	15.159	15.481	15.798	16.108	16.414	16.714	17.010	17.303	17.592	17.877	18.160
85	13.978	9.860	10.332	10.763	11.164	11.542	11.902	12.247	12.580	12.902	13.214	13.518	13.815	14.106	14.391	14.671	14.946	15.217	15.484	15.748	16.008	16.265
90	15.623	8.613	9.078	9.494	9.878	10.237	10.576	10.900	11.211	11.511	11.801	12.083	12.358	12.626	12.889	13.146	13.399	13.648	13.893	14.134	14.372	14.607
95	17.413	7.504	7.969	8.377	8.747	9.090	9.412	9.717	10.009	10.290	10.561	10.823	11.078	11.327	11.570	11.808	12.041	12.270	12.495	12.717	12.936	13.151
100	19.358	6.510	6.985	7.389	7.748	8.078	8.385	8.675	8.950	9.214	9.468	9.713	9.951	10.182	10.407	10.628	10.844	11.055	11.263	11.468	11.669	11.868
105	21.471	5.609	6.107	6.511	6.864	7.183	7.477	7.753	8.014	8.263	8.501	8.731	8.954	9.169	9.379	9.584	9.785	9.981	10.174	10.363	10.549	10.732
110	23.765	4.780	5.319	5.729	6.078	6.388	6.672	6.936	7.184	7.419	7.644	7.860	8.069	8.271	8.467	8.658	8.845	9.027	9.206	9.381	9.554	9.723
115	26.258	3.993	4.608	5.031	5.378	5.681	5.956	6.209	6.445	6.669	6.881	7.085	7.281	7.471	7.654	7.833	8.007	8.177	8.343	8.506	8.666	8.823
120	28.974	3.198	3.964	4.404	4.751	5.049	5.315	5.559	5.785	5.997	6.199	6.391	6.576	6.754	6.926	7.093	7.256	7.414	7.569	7.721	7.870	8.016

Thermodynamic properties of R-236fa - (superheated vapour) - Enthalpy (kJ/kg)

Sat. Temp. °C	Sat. Pressure bar	Superheat (°C)																					
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
-90	0.002	297.761	300.958	304.192	307.464	310.774	314.123	317.511	320.938	324.405	327.913	331.461	335.049	338.677	342.347	346.057	349.807	353.599	357.431	361.304	365.214	369.168	373.164
-85	0.004	300.948	304.183	307.455	310.765	314.115	317.503	320.931	324.399	327.907	331.455	335.043	338.672	342.342	346.052	349.803	353.594	357.427	361.300	365.210	369.164	373.158	377.195
-80	0.007	304.168	307.441	310.752	314.102	317.491	320.920	324.388	327.896	331.443	335.031	338.660	342.330	346.040	349.791	353.582	357.415	361.288	365.199	369.153	373.147	377.181	381.265
-75	0.011	307.420	310.732	314.083	317.473	320.903	324.372	327.881	331.431	335.020	338.650	342.321	346.032	349.784	353.577	357.410	361.284	365.195	369.150	373.150	377.187	381.265	385.379
-70	0.017	310.702	314.055	317.446	320.877	324.348	327.858	331.409	335.000	338.631	342.303	346.015	349.786	353.561	357.395	361.270	365.185	369.141	373.138	377.176	381.254	385.373	389.519
-65	0.026	314.104	317.408	320.841	324.313	327.826	331.378	334.970	338.603	342.276	345.990	349.744	353.538	357.374	361.249	365.166	369.123	373.120	377.159	381.238	385.358	389.519	393.718
-60	0.038	317.353	320.789	324.264	327.779	331.334	334.929	338.564	342.239	345.954	349.710	353.507	357.343	361.220	365.138	369.097	373.095	377.135	381.215	385.336	389.498	393.701	397.918
-55	0.055	320.718	324.197	327.716	331.274	334.872	338.510	342.188	345.906	349.664	353.463	357.302	361.181	365.100	369.061	373.061	377.102	381.184	385.307	389.470	393.674	397.918	402.170
-50	0.077	324.106	327.629	331.192	334.794	338.436	342.118	345.840	349.601	353.403	357.245	361.127	365.049	369.012	373.015	377.058	381.142	385.266	389.431	393.637	397.885	402.170	406.455
-45	0.107	327.514	331.083	334.691	338.339	342.025	345.752	349.518	353.324	357.170	361.056	364.982	368.947	372.953	377.000	381.086	385.213	389.380	393.588	397.836	402.125	406.455	410.771
-40	0.146	330.940	334.556	338.211	341.904	345.637	349.409	353.221	357.072	360.963	364.893	368.863	372.873	376.923	381.013	385.143	389.313	393.524	397.775	402.066	406.399	410.771	415.118
-35	0.197	334.381	338.045	341.748	345.489	349.269	353.088	356.945	360.842	364.779	368.754	372.770	376.824	380.919	385.053	389.227	393.442	397.696	401.991	406.326	410.702	415.118	419.494
-30	0.260	337.835	341.548	345.300	349.090	352.918	356.785	360.690	364.634	368.616	372.638	376.699	380.799	384.939	389.118	393.338	397.597	401.896	406.235	410.614	415.034	419.494	423.997
-25	0.340	341.297	345.062	348.865	352.705	356.582	360.498	364.451	368.443	372.473	376.542	380.649	384.796	388.982	393.207	397.472	401.776	406.120	410.504	414.928	419.392	423.897	428.436
-20	0.438	344.765	348.584	352.439	356.330	360.259	364.224	368.227	372.268	376.347	380.463	384.619	388.812	393.045	397.317	401.627	405.978	410.367	414.797	419.266	423.776	428.326	432.917
-15	0.557	348.237	352.110	356.019	359.964	363.945	367.962	372.016	376.107	380.235	384.401	388.604	392.846	397.127	401.445	405.803	410.200	414.636	419.112	423.628	428.183	432.779	437.411
-10	0.701	351.708	355.639	359.604	363.604	367.638	371.708	375.814	379.957	384.136	388.351	392.605	396.896	401.225	405.592	409.997	414.442	418.925	423.448	428.010	432.612	437.254	441.934
-5	0.873	355.176	359.166	363.189	367.246	371.336	375.460	379.620	383.815	388.046	392.313	396.617	400.958	405.337	409.753	414.207	418.700	423.232	427.802	432.412	437.061	441.750	450.475
-1.49	1.013	357.604	361.637	365.702	369.799	373.930	378.093	382.291	386.524	390.793	395.096	399.437	403.813	408.227	412.679	417.168	421.695	426.261	430.865	435.508	440.191	444.913	453.674
0	1.078	358.637	362.689	366.772	370.887	375.035	379.216	383.431	387.680	391.964	396.284	400.640	405.032	409.461	413.928	418.432	422.974	427.554	432.173	436.831	441.528	446.264	455.041
5	1.317	362.088	366.205	370.350	374.526	378.733	382.972	387.243	391.548	395.887	400.261	404.670	409.115	413.596	418.113	422.668	427.260	431.890	436.559	441.266	446.012	450.796	459.621
10	1.597	365.526	369.709	373.920	378.159	382.427	386.726	391.056	395.418	399.814	404.243	408.706	413.204	417.738	422.308	426.915	431.558	436.239	440.958	445.716	450.510	455.344	460.219
15	1.921	368.945	373.199	377.478	381.782	386.114	390.475	394.865	399.287	403.740	408.226	412.745	417.299	421.887	426.510	431.170	435.867	440.598	445.368	450.176	455.022	459.906	464.829
20	2.294	372.344	376.671	381.020	385.392	389.790	394.215	398.669	403.151	407.664	412.209	416.785	421.395	426.039	430.717	435.431	440.180	444.966	449.788	454.647	459.545	464.480	469.451
25	2.719	375.715	380.120	384.543	388.987	393.453	397.945	402.463	407.009	411.584	416.188	420.824	425.492	430.193	434.927	439.696	444.500	449.340	454.215	459.128	464.077	469.064	474.087
30	3.204	379.055	383.541	388.042	392.560	397.099	401.661	406.246	410.857	415.496	420.163	424.859	429.587	434.346	439.134	443.964	448.824	453.718	458.649	463.615	468.618	473.658	478.731
35	3.751	382.357	386.930	391.513	396.110	400.725	405.359	410.014	414.693	419.418	424.198	428.899	433.678	438.497	443.348	448.232	453.149	458.100	463.086	468.108	473.165	478.259	483.389
40	4.367	385.615	390.280	394.951	399.631	404.325	409.036	413.764	418.514	423.287	428.085	432.909	437.762	442.643	447.555	452.498	457.474	462.483	467.526	472.604	477.717	482.866	488.051
45	5.057	388.820	393.585	398.350	403.120	407.898	412.688	417.493	422.317	427.161	432.028	436.919	441.836	446.782	451.756	456.761	461.797	466.865	471.967	477.102	482.272	487.477	492.711
50	5.827	391.964	396.839	401.705	406.570	411.437	416.311	421.197	426.098	431.016	435.954	440.915	445.900	450.911	455.950	461.018	466.116	471.245	476.404	481.594	486.826	492.091	497.391
55	6.683	395.038	400.034	405.010	409.976	414.938	419.902	424.872	429.853	434.849	439.866	444.894	449.949	455.029	460.134	465.267	470.428	475.620	480.842	486.095	491.389	496.724	502.099
60	7.630	398.030	403.161	408.258	413.334	418.397	423.455	428.515	433.580	438.657	443.747	448.855	453.983	459.132	464.306	469.506	474.733	479.989	485.274	490.591	495.939	501.321	506.736
65	8.676	400.929	406.210	411.440	416.635	421.807	426.966	432.120	437.274	442.436	447.607	452.793	457.997	463.220	468.464	473.733	479.028	484.350	489.700	495.082	500.495	505.939	511.414
70	9.826	403.718	409.171	414.548	419.873	425.162	430.429	435.683	440.932	446.182	451.439	456.703	461.989	467.298	472.636	477.997	483.381	488.791	494.226	499.686	505.171	510.686	516.231
75	11.088	406.380	412.029	417.517	423.038	428.455	433.837	439.192	444.548	449.893	455.240	460.593	465.957	471.335	476.730	482.144	487.584	493.050	498.542	504.060	509.604	515.174	520.771
80	12.470	408.890	414.768	420.496	426.121	431.678	437.186	442.692	448.118	453.564	459.005	464.448	469.897	475.358	480.832	486.323	491.834	497.367	502.922	508.504	514.114	519.749	525.410
85	13.978	411.217	417.367	423.308	429.112	434.822	440.467	446.068	451.638	457.190	462.731	468.268	473.800	479.349	484.911	490.482	496.070	501.678	507.307	512.959	518.637	524.341	530.071
90	15.623	413.319	419.802	425.992	431.997	437.878	443.673	449.409	455.102	460.767	466.414	472.051	477.685	483.322	488.965	494.619	500.287	505.971	511.676	517.401	523.150	528.924	534.723
95	17.413	415.140	422.040	428.525	434.762	440.835	446.796	452.679	458.505	464.291	470.051	475.793	481.528	487.257	492.990	498.730	504.481	510.246	516.026	521.821	527.641	533.486	539.356
100	19.358	416.595	424.042	430.886	437.391	443.682	449.828	455.870	461.840	467.757	473.636	479.490	485.328	491.157	496.984	502.814	508.651	514.499	520.362	526.241	532.135	538.059	544.014
105	21.471	417.556	425.757	433.046	439.868	446.407	452.757	458.977	465.102	471.158	477.166	483.138	489.066	495.019	500.944	506.868	512.795	518.729	524.674	530.634	536.610	542.604	548.624
110	23.765	418.065	427.121	434.973	442.171	448.994	455.575	461.989	468.283	474.450	480.534	486.532	492.496	498.838	504.867	510.888	516.908	522.931	528.963	535.005	541.062	547.136	553.234
115	26.258	416.915	428.0																				

Thermodynamic properties of R-236fa - (superheated vapour) - Entropy (kJ/kg.K)

Sat. Temp. °C	Sat. Pressure bar	Superheat (°C)																				
		0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
-90	0.002	1.642	1.659	1.676	1.693	1.709	1.725	1.741	1.757	1.773	1.789	1.804	1.819	1.834	1.849	1.864	1.879	1.893	1.908	1.922	1.936	1.950
-85	0.004	1.629	1.646	1.663	1.680	1.696	1.712	1.728	1.744	1.759	1.775	1.790	1.805	1.820	1.835	1.849	1.864	1.878	1.893	1.907	1.921	1.935
-80	0.007	1.619	1.636	1.652	1.668	1.685	1.700	1.716	1.732	1.747	1.762	1.777	1.792	1.807	1.822	1.836	1.851	1.865	1.879	1.893	1.907	1.921
-75	0.011	1.610	1.626	1.643	1.659	1.675	1.690	1.706	1.721	1.737	1.752	1.767	1.781	1.796	1.811	1.825	1.839	1.854	1.868	1.882	1.896	1.909
-70	0.017	1.602	1.618	1.635	1.650	1.666	1.682	1.697	1.712	1.727	1.742	1.757	1.772	1.786	1.801	1.815	1.829	1.844	1.858	1.871	1.885	1.899
-65	0.026	1.596	1.612	1.628	1.643	1.659	1.674	1.690	1.705	1.720	1.734	1.749	1.764	1.778	1.792	1.807	1.821	1.835	1.849	1.862	1.876	1.890
-60	0.038	1.590	1.606	1.622	1.637	1.653	1.668	1.683	1.698	1.713	1.728	1.742	1.757	1.771	1.785	1.799	1.813	1.827	1.841	1.855	1.868	1.882
-55	0.055	1.586	1.602	1.617	1.633	1.648	1.663	1.678	1.693	1.707	1.722	1.736	1.751	1.765	1.779	1.793	1.807	1.821	1.835	1.848	1.862	1.875
-50	0.077	1.582	1.598	1.613	1.629	1.644	1.659	1.674	1.688	1.703	1.717	1.732	1.746	1.760	1.774	1.788	1.802	1.815	1.829	1.843	1.856	1.869
-45	0.107	1.579	1.595	1.610	1.625	1.640	1.655	1.670	1.685	1.699	1.713	1.728	1.742	1.756	1.770	1.784	1.797	1.811	1.825	1.838	1.851	1.865
-40	0.146	1.577	1.593	1.608	1.623	1.638	1.653	1.667	1.682	1.696	1.710	1.725	1.739	1.753	1.766	1.780	1.794	1.807	1.821	1.834	1.847	1.861
-35	0.197	1.576	1.591	1.606	1.621	1.636	1.651	1.665	1.680	1.694	1.708	1.722	1.736	1.750	1.764	1.777	1.791	1.804	1.818	1.831	1.844	1.858
-30	0.260	1.575	1.591	1.606	1.620	1.635	1.650	1.664	1.678	1.693	1.707	1.721	1.734	1.748	1.762	1.775	1.789	1.802	1.816	1.829	1.842	1.855
-25	0.340	1.575	1.590	1.605	1.620	1.634	1.649	1.663	1.677	1.692	1.706	1.719	1.733	1.747	1.761	1.774	1.788	1.801	1.814	1.827	1.840	1.853
-20	0.438	1.576	1.590	1.605	1.620	1.634	1.649	1.663	1.677	1.691	1.705	1.719	1.733	1.746	1.760	1.773	1.787	1.800	1.813	1.826	1.839	1.852
-15	0.557	1.576	1.591	1.606	1.620	1.635	1.649	1.663	1.677	1.691	1.705	1.719	1.733	1.746	1.760	1.773	1.786	1.800	1.813	1.826	1.839	1.852
-10	0.701	1.577	1.592	1.607	1.621	1.636	1.650	1.664	1.678	1.692	1.706	1.720	1.733	1.747	1.760	1.773	1.787	1.800	1.813	1.826	1.839	1.852
-5	0.873	1.579	1.594	1.608	1.623	1.637	1.651	1.665	1.679	1.693	1.707	1.720	1.734	1.747	1.761	1.774	1.787	1.800	1.813	1.826	1.839	1.852
-1.49	1.013	1.580	1.595	1.609	1.624	1.638	1.652	1.666	1.680	1.694	1.708	1.721	1.735	1.748	1.762	1.775	1.788	1.801	1.814	1.827	1.840	1.853
0	1.078	1.581	1.595	1.610	1.624	1.639	1.653	1.667	1.681	1.695	1.708	1.721	1.735	1.749	1.762	1.775	1.788	1.801	1.814	1.827	1.840	1.853
5	1.317	1.583	1.598	1.612	1.626	1.641	1.655	1.669	1.683	1.696	1.710	1.724	1.737	1.750	1.764	1.777	1.790	1.803	1.816	1.829	1.841	1.854
10	1.597	1.585	1.600	1.614	1.629	1.643	1.657	1.671	1.685	1.698	1.712	1.726	1.739	1.752	1.765	1.779	1.792	1.805	1.818	1.830	1.843	1.856
15	1.921	1.588	1.602	1.617	1.631	1.645	1.659	1.673	1.687	1.701	1.714	1.728	1.741	1.754	1.768	1.781	1.794	1.807	1.820	1.832	1.845	1.858
20	2.294	1.591	1.605	1.620	1.634	1.648	1.662	1.676	1.690	1.703	1.717	1.730	1.744	1.757	1.770	1.783	1.796	1.809	1.822	1.835	1.847	1.860
25	2.719	1.593	1.608	1.623	1.637	1.651	1.665	1.679	1.693	1.706	1.720	1.733	1.747	1.760	1.773	1.786	1.799	1.812	1.825	1.837	1.850	1.863
30	3.204	1.596	1.611	1.626	1.640	1.654	1.668	1.682	1.696	1.709	1.723	1.736	1.750	1.763	1.776	1.789	1.802	1.815	1.827	1.840	1.853	1.865
35	3.751	1.600	1.614	1.629	1.643	1.657	1.671	1.685	1.699	1.713	1.726	1.739	1.753	1.766	1.779	1.792	1.805	1.818	1.831	1.843	1.856	1.868
40	4.367	1.603	1.618	1.632	1.647	1.661	1.675	1.689	1.702	1.716	1.729	1.743	1.756	1.769	1.782	1.795	1.808	1.821	1.834	1.846	1.859	1.872
45	5.057	1.606	1.621	1.636	1.650	1.664	1.678	1.692	1.706	1.720	1.733	1.746	1.760	1.773	1.786	1.799	1.812	1.825	1.837	1.850	1.863	1.875
50	5.827	1.609	1.624	1.639	1.653	1.668	1.682	1.696	1.710	1.723	1.737	1.750	1.763	1.776	1.790	1.803	1.815	1.828	1.841	1.854	1.866	1.879
55	6.683	1.612	1.628	1.642	1.657	1.671	1.685	1.699	1.713	1.727	1.740	1.754	1.767	1.780	1.793	1.806	1.819	1.832	1.845	1.857	1.870	1.882
60	7.630	1.616	1.631	1.646	1.660	1.675	1.689	1.703	1.717	1.731	1.744	1.758	1.771	1.784	1.797	1.810	1.823	1.836	1.849	1.861	1.874	1.886
65	8.676	1.619	1.634	1.649	1.664	1.679	1.693	1.707	1.721	1.735	1.748	1.762	1.775	1.788	1.801	1.814	1.827	1.840	1.853	1.865	1.878	1.890
70	9.826	1.621	1.637	1.653	1.668	1.682	1.697	1.711	1.725	1.739	1.752	1.766	1.779	1.792	1.805	1.818	1.831	1.844	1.857	1.869	1.882	1.894
75	11.088	1.624	1.640	1.656	1.671	1.686	1.700	1.715	1.729	1.742	1.756	1.770	1.783	1.796	1.809	1.823	1.835	1.848	1.861	1.874	1.886	1.899
80	12.470	1.627	1.643	1.659	1.674	1.689	1.704	1.718	1.733	1.746	1.760	1.774	1.787	1.801	1.814	1.827	1.840	1.853	1.865	1.878	1.891	1.903
85	13.978	1.629	1.646	1.662	1.678	1.693	1.708	1.722	1.736	1.750	1.764	1.778	1.791	1.805	1.818	1.831	1.844	1.857	1.870	1.882	1.895	1.907
90	15.623	1.630	1.648	1.665	1.681	1.696	1.711	1.726	1.740	1.754	1.768	1.782	1.796	1.809	1.822	1.835	1.848	1.861	1.874	1.887	1.899	1.912
95	17.413	1.631	1.650	1.667	1.684	1.699	1.715	1.729	1.744	1.758	1.772	1.786	1.800	1.813	1.826	1.840	1.853	1.866	1.878	1.891	1.904	1.916
100	19.358	1.632	1.651	1.669	1.686	1.702	1.718	1.733	1.748	1.762	1.776	1.790	1.804	1.817	1.831	1.844	1.857	1.870	1.883	1.896	1.908	1.921
105	21.471	1.631	1.652	1.671	1.689	1.705	1.721	1.736	1.751	1.766	1.780	1.794	1.808	1.822	1.835	1.848	1.861	1.874	1.887	1.900	1.913	1.925
110	23.765	1.628	1.652	1.672	1.691	1.708	1.724	1.740	1.755	1.769	1.784	1.798	1.812	1.826	1.839	1.853	1.866	1.879	1.892	1.905	1.917	1.930
115	26.258	1.623	1.652	1.673	1.692	1.710	1.727	1.743	1.758	1.773	1.788	1.802	1.816	1.830	1.843	1.857	1.870	1.883	1.896	1.909	1.922	1.935
120	28.974	1.613	1.650	1.673	1.694	1.712	1.729	1.745	1.761	1.776	1.791	1.806	1.820	1.834	1.847	1.861	1.874	1.887	1.901	1.913	1.926	1.939