

## Saturated Vapor Pressure

### Calculation by Antoine Equation

Component	Hexane	▼
Temperature Unit	°F	▼
Property Unit	psi	▼
Temperatures	-100	(optional)

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#### Property Calculation

⇒ Saturated Vapor Pressure  
 ⇒ Saturated Liquid Density  
 ⇒ Liquid Dynamic Viscosity  
 ⇒ Surface Tension  
 ⇒ Heat of Vaporization

#### Property Estimation

⇒ UNIFAC  
 ⇒ MOSCED  
 ⇒ Joback

#### Group Assignment

⇒ UNIFAC and PSRK

### Component Details

#DDB	Name	CAS-No.	Formula
89	Hexane	110-54-3	C <sub>6</sub> H <sub>14</sub>

### Antoine Equation Parameters (P in mmHg, T in °C)

No.	A	B	C	T <sub>min</sub>	T <sub>max</sub>
(1)	7.01051	1246.33	232.988	-95	235

$$P = 10^{A - \frac{B}{C+T}}$$

**Note:** mmHg are used here with constant conversion factor 760 mmHg=101.325 kPa=14.696 psi, conversion exactly valid only for 273.15 K

### Calculation for Given Temperatures

Temperature [°F]	Pressure <sup>(1)</sup> [psi]
-100	0.00309373

### Calculation Over Validity Range

Temperature [°F]	Pressure <sup>(1)</sup> [psi]
-139	0.000183964
-127.12	0.00047536
-115.24	0.00113062
-103.36	0.0025011
-91.48	0.00519108
-79.6	0.0101836
-67.72	0.0190019
-55.84	0.0339059
-43.96	0.058124
-32.08	0.0961129
-20.2	0.153842
-8.32	0.23909
3.56	0.361751
15.44	0.534134
27.32	0.771248
39.2	1.09107

51.08	1.51476
62.96	2.0669
74.84	2.7756
86.72	3.67263
98.6	4.79349
110.48	6.1774
122.36	7.86728
134.24	9.9097
146.12	12.3547
158	15.2557
169.88	18.6691
181.76	22.6546
193.64	27.2743
205.52	32.5926
217.4	38.6764
229.28	45.5941
241.16	53.4159
253.04	62.213
264.92	72.0576
276.8	83.0226
288.68	95.1811
300.56	108.606
312.44	123.371
324.32	139.548
336.2	157.209
348.08	176.425
359.96	197.265
371.84	219.797
383.72	244.087
395.6	270.202
407.48	298.203
419.36	328.151
431.24	360.106
443.12	394.123
455	430.257

[Direct link to this calculation page](#)

### Important Note

The results of this calculation page do not describe the properties exactly. The parameters have been adjusted to a number of experimental data points which can be erroneous. A parameter regression minimizes the deviations between calculated and experimental data. This procedure can add a significant deviation between calculated and experimental data in addition to the experimental errors. The parameters are valid only inside the given temperature ranges.

### Disclaimer

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