Argon

Other names:	ARGON-40
	Ar
	R-740
	UN 1006
	UN 1951
	argon atom
Inchi:	InChI=1S/Ar
InchiKey:	XKRFYHLGVUSROY-UHFFFAOYSA-N
Formula:	Ar
SMILES:	[Ar]
Mol. weight [g/mol]:	39.95
CAS:	7440-37-1

Physical Properties

Property code	Value	Unit	Source
af	0.0010		KDB
affp	369.20	kJ/mol	NIST Webbook
basg	346.30	kJ/mol	NIST Webbook
dm	0.00	debye	KDB
ie	15.70	eV	NIST Webbook
ie	15.74 ± 0.05	eV	NIST Webbook
ie	15.78 ± 0.03	eV	NIST Webbook
ie	15.76 ± 0.01	eV	NIST Webbook
ie	15.71 ± 0.00	eV	NIST Webbook
ie	15.76	eV	NIST Webbook
ie	15.76 ± 0.00	eV	NIST Webbook
ie	15.76 ± 0.00	eV	NIST Webbook
ie	15.79	eV	NIST Webbook
ie	15.88	eV	NIST Webbook
ie	15.76	eV	NIST Webbook
ie	15.76	eV	NIST Webbook
ie	15.76	eV	NIST Webbook
ie	15.76	eV	NIST Webbook
ie	15.76 ± 0.00	eV	NIST Webbook
ie	15.82	eV	NIST Webbook
ie	15.75 ± 0.00	eV	NIST Webbook
pc	489.79 ± 0.20	kPa	NIST Webbook

pc	4898.05 ± 10.13	kPa	NIST Webbook
pc	4855.49 ± 7.09	kPa	NIST Webbook
pc	4898.00	kPa	KDB
pt	68.90 ± 0.01	kPa	NIST Webbook
pt	68.95	kPa	KDB
pt	68.90 ± 0.01	kPa	NIST Webbook
pt	68.75 ± 0.07	kPa	NIST Webbook
rhoc	535.70 ± 0.20	kg/m3	NIST Webbook
rhoc	335.68 ± 0.32	kg/m3	NIST Webbook
sgb	154.85 ± 0.00	J/mol×K	NIST Webbook
tb	87.30	K	KDB
tb	87.50 ± 0.30	K	NIST Webbook
tb	87.28 ± 0.02	K	NIST Webbook
tc	150.86 ± 0.10	K	NIST Webbook
tc	150.87	K	KDB
tc	150.65 ± 0.03	K	NIST Webbook
tc	150.86 ± 0.10	K	NIST Webbook
tf	83.80	K	KDB
tf	83.80 ± 0.30	K	NIST Webbook
tt	83.78 ± 0.20	K	NIST Webbook
tt	83.78 ± 0.04	K	NIST Webbook
tt	83.80 ± 0.05	K	NIST Webbook
tt	83.80 ± 0.05	K	NIST Webbook
tt	87.78 ± 0.05	K	NIST Webbook
tt	83.81	K	KDB
vc	0.075	m3/kmol	KDB
zc	0.2928470		KDB
zra	0.29		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
dvisc	0.0000221	Pa×s	291.09	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K

dvisc	0.0000223	Pa×s	293.53	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000224	Pa×s	295.93	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000225	Pa×s	296.63	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000225	Pa×s	296.80	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000225	Pa×s	296.87	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000225	Pa×s	297.39	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000241	Pa×s	322.92	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000241	Pa×s	323.25	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000242	Pa×s	323.48	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K

dvisc	0.0000258	Pa×s	350.34	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000258	Pa×s	350.34	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000258	Pa×s	350.45	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000274	Pa×s	377.66	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000274	Pa×s	377.95	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000274	Pa×s	378.10	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000289	Pa×s	405.29	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000290	Pa×s	405.68	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	

dvisc	0.0000290	Pa×s	405.85	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000305	Pa×s	433.11	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000305	Pa×s	433.64	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000305	Pa×s	433.85	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000319	Pa×s	461.11	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000320	Pa×s	461.75	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000320	Pa×s	462.03	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000334	Pa×s	489.25	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000334	Pa×s	490.08	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K

dvisc	0.0000335	Pa×s	490.39	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000348	Pa×s	517.61	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000425	Pa×s	681.82	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000349	Pa×s	518.75	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000360	Pa×s	540.94	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000360	Pa×s	542.18	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000361	Pa×s	542.58	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000370	Pa×s	561.10	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K

dvisc	0.0000372	Pa×s	564.91	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000372	Pa×s	565.36	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000383	Pa×s	589.42	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000385	Pa×s	593.80	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000385	Pa×s	594.12	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000397	Pa×s	618.99	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000399	Pa×s	623.19	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000399	Pa×s	623.22	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K
dvisc	0.0000411	Pa×s	649.34	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K

dvisc	0.0000412	Pa×s	652.30	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000412	Pa×s	652.35	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000423	Pa×s	678.33	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000349	Pa×s	518.36	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
dvisc	0.0000425	Pa×s	681.96	Reference Viscosity of Argon at Low Density in the Temperature Range from 290 K to 680 K	
hvapt	7.79	kJ/mol	29.30	Measurements of enthalpy of sublimation of Ne, N2, O2, Ar, CO2, Kr, Xe, and H2O using a double paddle oscillator	
pvap	2605.60	kPa	135.80	Phase Equilibrium of Three Binary Mixtures Containing NO and Components Present in Ambient Air	
pvap	2015.80	kPa	129.89	Investigation on Vapor-Liquid Equilibrium of (Argon + Methane) at the Temperature Range of (95 to 135) K	

pvap	211.73	kPa	94.93	Investigation on Vapor-Liquid Equilibrium of (Argon + Methane) at the Temperature Range of (95 to 135) K
pvap	323.00	kPa	99.97	Investigation on Vapor-Liquid Equilibrium of (Argon + Methane) at the Temperature Range of (95 to 135) K
pvap	466.83	kPa	104.84	Investigation on Vapor-Liquid Equilibrium of (Argon + Methane) at the Temperature Range of (95 to 135) K
pvap	1209.00	kPa	119.94	Investigation on Vapor-Liquid Equilibrium of (Argon + Methane) at the Temperature Range of (95 to 135) K
pvap	1575.90	kPa	124.92	Investigation on Vapor-Liquid Equilibrium of (Argon + Methane) at the Temperature Range of (95 to 135) K
pvap	4028.90	kPa	146.22	Phase Equilibrium of Three Binary Mixtures Containing NO and Components Present in Ambient Air
rhol	1373.00	kg/m3	90.00	KDB

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)

Coeff. A	1.37362e+01
Coeff. B	-7.83502e+02
Coeff. C	-1.35000e+00
Temperature range (K), min.	83.78
Temperature range (K), max.	150.86

Datasets

Speed of sound, m/s

Temperature, K - Fluid (supercritical or subcritical phases)	Pressure, kPa - Fluid (supercritical or subcritical phases)	Speed of sound, m/s - Fluid (supercritical or subcritical phases)
250.00	53.70	294.482
250.00	198.00	294.473
250.00	329.40	294.466
250.00	2365.80	294.798
250.00	4652.90	296.356
250.00	5823.00	297.759
250.16	48.70	294.574
250.16	48.80	294.5752
250.16	192.00	294.572
250.16	309.10	294.566
250.16	447.70	294.56
250.16	598.60	294.561
250.16	732.50	294.563
250.16	875.60	294.583
250.16	1401.10	294.624
250.16	192.00	294.575
250.16	309.10	294.569
250.16	447.70	294.568
250.16	598.60	294.574
250.16	732.50	294.578
250.16	1401.10	294.651
260.00	198.60	300.345
260.00	327.30	300.368
260.00	3507.50	301.947
260.00	4624.00	303.042
260.00	6602.30	305.842
270.00	53.20	306.055

270.00	200.00	306.108
270.00	325.80	306.151
270.00	467.20	306.205
270.00	3521.80	308.292
270.00	4675.90	309.592
270.00	5775.20	311.124
275.10	47.60	308.935
275.10	206.80	309.01
275.10	206.90	309.012
275.10	384.30	309.094
275.10	547.40	309.173
275.10	591.70	309.204
275.10	706.20	309.255
275.10	733.80	309.269
275.10	860.20	309.337
275.10	860.30	309.3457
275.10	1389.20	309.646
275.10	1389.30	309.667
275.10	384.30	309.0978
275.10	547.40	309.18
275.10	706.20	309.264
275.10	733.80	309.279
275.10	860.20	309.334
275.10	860.20	309.3473
280.00	200.10	311.759
280.00	328.30	311.827
280.00	2342.80	313.26
280.00	4647.90	315.83
280.00	5767.00	317.479
280.00	6610.30	318.936
280.12	99.10	311.774
280.12	305.20	311.874
280.12	307.70	311.887
280.12	529.40	312.003
280.12	531.10	312.013
280.12	745.80	312.132
280.12	748.00	312.141
280.12	962.40	312.273
280.12	964.60	312.277
280.12	1184.90	312.423
280.12	1396.40	312.58
280.12	1396.80	312.571
280.12	1601.70	312.723
280.12	1834.40	312.907

290.00	53.60	317.203
290.00	196.40	317.297
290.00	1191.60	318.037
290.00	2325.00	319.083
290.00	3477.80	320.364
300.00	30.50	322.616
300.00	183.80	322.742
300.00	308.30	322.843
300.00	1180.90	323.609
300.00	2331.50	324.807
300.00	4657.30	327.876
300.00	5832.90	329.796
300.00	6595.80	331.208
300.11	100.30	322.731
300.11	244.70	322.851
300.11	395.40	322.976
300.11	528.00	323.113
300.11	558.10	323.115
300.11	701.60	323.241
300.11	739.10	323.296
300.11	868.00	323.391
300.11	963.00	323.5
300.11	1011.70	323.529
300.11	1166.10	323.695
300.11	1618.00	324.143
300.11	1836.40	324.371
300.12	48.10	322.692
300.12	193.00	322.814
300.12	308.10	322.909
300.12	445.50	323.023
300.12	729.90	323.27
300.12	868.10	323.392
300.12	868.20	323.405
300.12	1378.60	323.871
300.12	193.00	322.814
300.12	308.10	322.9103
300.12	445.50	323.033
300.12	729.90	323.28
300.12	868.20	323.4052
300.12	1378.60	323.889
300.12	1378.60	323.889
310.00	104.70	328.02
310.00	198.60	328.105
310.00	329.20	328.225

310.00	463.40	328.349
310.00	2330.10	330.379
310.00	4624.60	333.589
310.00	6595.80	337.02
320.00	102.00	333.276
320.00	180.50	333.349
320.00	311.00	333.482
320.00	450.50	333.627
320.00	576.40	333.773
320.00	1053.90	334.304
320.00	1550.80	334.886
320.00	2333.10	335.852
320.00	4482.20	339.001
320.00	5819.90	341.243
320.00	102.00	333.278
320.00	576.40	333.785
320.00	1053.90	334.316
320.00	1550.80	334.899
325.05	48.10	335.835
325.05	192.90	335.997
325.05	314.50	336.13
325.05	438.60	336.267
325.05	592.70	336.443
325.05	736.00	336.603
325.05	870.80	336.757
325.05	1376.50	337.358
325.05	1376.60	337.3671
325.05	2721.40	339.142
325.05	192.90	335.993
325.05	314.50	336.127
325.05	438.60	336.2665
325.05	870.80	336.763
349.87	48.90	348.434
349.87	182.80	348.615
349.87	182.90	348.607
349.87	307.30	348.768
349.87	447.00	348.95
349.87	594.50	349.144
349.87	726.70	349.32
349.87	864.50	349.504
349.87	864.60	349.5243
349.87	1397.70	350.238
349.87	2711.20	352.186
349.87	48.90	348.435

349.87	307.30	348.7836
349.87	447.00	348.966
349.87	726.70	349.34
349.87	1397.70	350.26

Reference *https://www.doi.org/10.1021/je900428g*

Thermal conductivity, W/m/K

Temperature, K - Gas	Pressure, kPa - Gas	Thermal conductivity, W/m/K - Gas
304.80	1020.00	0.0182
304.80	1560.00	0.0184
304.80	2320.00	0.0187
304.80	2590.00	0.0188
304.80	4470.00	0.0196
329.00	1200.00	0.0193
329.00	1270.00	0.0195
329.00	1960.00	0.0198
329.00	2340.00	0.0199
329.00	3030.00	0.0202
329.00	3630.00	0.0203
329.00	5980.00	0.0212
329.00	7320.00	0.0219
360.05	1240.00	0.0209
360.05	1560.00	0.0210
360.05	1640.00	0.0210
360.05	2240.00	0.0213
360.05	3200.00	0.0216
360.05	4160.00	0.0219
360.05	8720.00	0.0239
389.30	1390.00	0.0223
389.30	2140.00	0.0226
389.30	2780.00	0.0228
389.30	3330.00	0.0229
389.30	3560.00	0.0230
389.30	4190.00	0.0232
389.30	5350.00	0.0235
389.30	6050.00	0.0238
389.30	6660.00	0.0240
389.30	7500.00	0.0243
389.30	8260.00	0.0247

389.30	8500.00	0.0246
417.50	1210.00	0.0234
417.50	1400.00	0.0234
417.50	2110.00	0.0237
417.50	2740.00	0.0239
417.50	3420.00	0.0242
417.50	4130.00	0.0243
417.50	4800.00	0.0246
417.50	5470.00	0.0248
417.50	6180.00	0.0250
417.50	6890.00	0.0252
417.50	7580.00	0.0256
417.50	8270.00	0.0258
475.70	1090.00	0.0256
475.70	1410.00	0.0257
475.70	2120.00	0.0261
475.70	2790.00	0.0264
475.70	3520.00	0.0265
475.70	4250.00	0.0268
475.70	5010.00	0.0269
475.70	6100.00	0.0274
475.70	7980.00	0.0279

Reference *https://www.doi.org/10.1007/s10765-006-0093-7*

Temperature, K	Pressure, kPa	Thermal conductivity, W/m/K
312.12	31080.00	0.0342
312.35	27380.00	0.0324
312.18	27390.00	0.0323
312.20	25850.00	0.0313
312.12	24160.00	0.0302
311.92	20370.00	0.0281
312.59	17170.00	0.0265
312.61	13790.00	0.0246
312.73	10320.00	0.0228

Reference *https://www.doi.org/10.1016/j.jct.2019.01.028*

Viscosity, Pa*s

Temperature, K - Fluid (supercritical or subcritical phases)	Pressure, kPa - Fluid (supercritical or subcritical phases)	Viscosity, Pa*s - Fluid (supercritical or subcritical phases)
323.16	7006.00	0.0000274
323.16	13877.00	0.0000298
323.16	20899.00	0.0000326
323.16	27679.00	0.0000352
323.16	34459.00	0.0000382
323.16	41249.00	0.0000415
323.16	48119.00	0.0000448
323.16	54885.00	0.0000481
323.16	61690.00	0.0000512
323.16	68312.00	0.0000542
348.15	6978.00	0.0000290
348.15	17496.00	0.0000331
348.15	27653.00	0.0000358
348.15	34469.00	0.0000381
348.15	41288.00	0.0000407
348.15	48154.00	0.0000434
348.15	54879.00	0.0000463
348.15	61690.00	0.0000490
348.15	68529.00	0.0000510
398.11	7360.00	0.0000292
398.11	13876.00	0.0000314
398.11	27719.00	0.0000362
398.11	34448.00	0.0000386
398.11	41294.00	0.0000417
398.11	48140.00	0.0000441
398.11	54949.00	0.0000466
398.11	61785.00	0.0000491
423.11	7272.00	0.0000300
423.11	14124.00	0.0000321
423.11	21056.00	0.0000342
423.11	27786.00	0.0000359
423.11	34605.00	0.0000376
423.11	41249.00	0.0000398
423.11	48189.00	0.0000418
423.11	48197.00	0.0000421
423.11	55018.00	0.0000444
423.11	61834.00	0.0000467
423.11	68620.00	0.0000493
423.11	7008.00	0.0000311
423.11	14381.00	0.0000340
423.11	21065.00	0.0000361

423.11	27779.00	0.0000381
423.11	34529.00	0.0000403

Reference *https://www.doi.org/10.1007/s10765-006-0114-6*

Temperature, K	Pressure, kPa	Viscosity, Pa*s
300.11	400.00	0.0000227
300.17	103.00	0.0000228
300.19	199.00	0.0000226
300.25	302.00	0.0000227
300.32	832.00	0.0000229
300.38	616.00	0.0000228
300.49	2082.00	0.0000234
300.54	3089.00	0.0000235
300.56	4050.00	0.0000236
300.58	4503.00	0.0000238
300.63	3427.00	0.0000234
300.66	2759.00	0.0000234
300.68	1446.00	0.0000231
300.70	3729.00	0.0000235
300.72	2458.00	0.0000234
300.76	1775.00	0.0000232
300.89	1117.00	0.0000229

Reference *https://www.doi.org/10.1021/je900279z*

Mass density, kg/m3

Temperature, K - Gas	Pressure, kPa - Gas	Mass density, kg/m3 - Gas
318.75	412.69	6.2318
318.75	412.69	6.2327
318.75	568.39	8.5885
318.75	2800.67	42.6996
318.75	3845.47	58.8449
318.75	568.39	8.5891
318.75	2800.67	42.685
318.75	3845.47	58.8199
318.75	217.45	3.2809
318.75	299.59	4.5217
318.75	217.45	3.2819

318.75	299.59	4.5227
318.75	782.65	11.8364
318.75	1077.30	16.3128
318.75	5275.06	81.0918
318.75	7231.46	111.7468
318.75	782.65	11.8363
318.75	1077.30	16.3112
318.75	5275.06	81.0507
318.75	7231.46	111.681
318.76	157.82	2.3805
318.76	157.82	2.3815
318.76	1482.26	22.4815
318.76	1482.26	22.4774
318.76	2038.22	30.9829
318.76	2038.22	30.9748

Reference *https://www.doi.org/10.1021/je100148h*

Mass density, kg/m3

Temperature, K - Fluid (supercritical or subcritical phases)	Pressure, kPa - Fluid (supercritical or subcritical phases)	Mass density, kg/m3 - Fluid (supercritical or subcritical phases)
298.23	10975.00	185.811
298.23	12977.00	220.515
298.23	14975.00	254.862
298.24	16973.00	288.723
298.23	18968.00	321.888
298.23	20970.00	354.268
298.23	22969.00	385.599
298.23	24967.00	415.802
298.22	26965.00	444.81
298.22	28963.00	472.591
298.20	30957.00	499.118
348.21	10976.00	153.363
348.25	12974.00	181.049
348.27	14970.00	208.427
348.24	16969.00	235.508
348.22	18971.00	262.184
348.27	20969.00	288.199
348.27	22970.00	313.733
348.26	24967.00	338.568

348.24	26966.00	362.782
348.21	28963.00	386.293
348.19	30960.00	409.077
348.25	32887.00	430.274
348.24	30961.00	409.019
348.22	28964.00	386.289
348.27	26989.00	363.019
348.28	25000.00	338.949
348.29	23010.00	314.199
348.26	21009.00	288.719
348.21	19007.00	262.654
348.23	17005.00	236.0
348.24	15014.00	209.051
348.28	13012.00	181.556
348.28	11019.00	153.917
397.91	12975.00	155.101
397.98	14981.00	178.323
398.17	16979.00	201.05
398.61	18975.00	223.208
398.87	20975.00	245.092
398.92	22970.00	266.619
398.10	24969.00	288.472
398.23	26971.00	309.171
398.28	28964.00	329.33
398.23	30962.00	349.179
398.21	32960.00	368.494
398.19	30985.00	349.444
398.20	28999.00	329.764
398.35	27004.00	309.394
398.47	25004.00	288.536
398.26	23005.00	267.5
398.25	21010.00	245.897
398.24	19010.00	223.818
398.30	17005.00	201.261
398.31	15013.00	178.513
398.26	13011.00	155.367
398.24	11017.00	132.022

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Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
pc:	Critical Pressure
pt:	Triple Point Pressure
pvap:	Vapor pressure
rhoc:	Critical density
rhog:	Gas Density
rhol:	Liquid Density
sgb:	Molar entropy at standard conditions (1 bar)
speedsl:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tcondg:	Gas thermal conductivity
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter