

# Pentane, 1,5-dibromo-

<b>Other names:</b>	1,5-Dibromopentane Br(CH <sub>2</sub> ) <sub>5</sub> Br Dibromo-1,5 pentane Pentamethylene bromide Pentamethylene dibromide
<b>Inchi:</b>	InChI=1S/C5H10Br2/c6-4-2-1-3-5-7/h1-5H2
<b>InchiKey:</b>	IBODDUNKEPPBKW-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>5</sub> H <sub>10</sub> Br <sub>2</sub>
<b>SMILES:</b>	BrCCCCBr
<b>Mol. weight [g/mol]:</b>	229.94
<b>CAS:</b>	111-24-0

## Physical Properties

Property code	Value	Unit	Source
gf	19.86	kJ/mol	Joback Method
hf	-93.87	kJ/mol	Joback Method
hfl	-163.00	kJ/mol	NIST Webbook
hfus	19.28	kJ/mol	Joback Method
hvap	39.59	kJ/mol	Joback Method
ie	10.23	eV	NIST Webbook
log10ws	-2.78		Crippen Method
logp	2.947		Crippen Method
mcvol	116.310	ml/mol	McGowan Method
pc	4109.14	kPa	Joback Method
rinpol	1178.00		NIST Webbook
rinpol	1208.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1208.00		NIST Webbook
ripol	1662.00		NIST Webbook
ripol	1673.00		NIST Webbook
ripol	1673.00		NIST Webbook
ripol	1712.00		NIST Webbook
tb	495.50	K	NIST Webbook
tc	650.13	K	Joback Method

tf	233.20 ± 0.40	K	NIST Webbook
vc	0.440	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	194.94	J/mol×K	446.12	Joback Method
cpg	204.05	J/mol×K	480.12	Joback Method
cpg	212.65	J/mol×K	514.12	Joback Method
cpg	220.76	J/mol×K	548.13	Joback Method
cpg	228.41	J/mol×K	582.13	Joback Method
cpg	235.62	J/mol×K	616.13	Joback Method
cpg	242.43	J/mol×K	650.13	Joback Method
cpl	220.66	J/mol×K	297.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	219.98	J/mol×K	294.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	220.19	J/mol×K	295.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	220.41	J/mol×K	296.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K

cpl	219.76	J/mol×K	293.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	220.84	J/mol×K	298.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	221.10	J/mol×K	299.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	221.28	J/mol×K	300.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	221.49	J/mol×K	301.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	221.73	J/mol×K	302.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K

cpl	221.95	J/mol×K	303.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	222.17	J/mol×K	304.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	222.41	J/mol×K	305.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	222.63	J/mol×K	306.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	222.85	J/mol×K	307.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	223.09	J/mol×K	308.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K

cpl	223.31	J/mol×K	309.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	223.56	J/mol×K	310.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	223.78	J/mol×K	311.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	224.03	J/mol×K	312.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	224.26	J/mol×K	313.15	Heat Capacity, Speed of Ultrasound, and Density for 1,5-Dibromopentane + Heptane within the Temperature Range from 293.15 K to 313.15 K
cpl	217.95	J/mol×K	285.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ??-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	218.27	J/molxK	286.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	218.58	J/molxK	288.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	218.90	J/molxK	289.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	219.22	J/molxK	291.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	219.54	J/molxK	292.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	219.86	J/mol×K	294.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	220.18	J/mol×K	295.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	220.50	J/mol×K	297.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	220.72	J/mol×K	298.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	220.83	J/mol×K	298.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	221.16	J/molxK	300.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	221.49	J/molxK	301.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	221.82	J/molxK	303.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	222.15	J/molxK	304.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	222.48	J/molxK	306.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K



cpl	222.82	J/mol×K	307.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	234.02	J/mol×K	354.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	223.50	J/mol×K	310.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	223.84	J/mol×K	312.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	224.18	J/mol×K	313.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	224.52	J/molxK	315.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	224.87	J/molxK	316.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	225.21	J/molxK	318.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	225.56	J/molxK	319.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	225.91	J/molxK	321.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	226.26	J/mol×K	322.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	226.62	J/mol×K	324.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	226.97	J/mol×K	325.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	227.33	J/mol×K	327.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	227.69	J/mol×K	328.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	228.05	J/molxK	330.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	228.41	J/molxK	331.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	228.77	J/molxK	333.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	229.13	J/molxK	334.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	229.50	J/molxK	336.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	229.87	J/mol×K	337.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	230.24	J/mol×K	339.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	230.61	J/mol×K	340.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	230.98	J/mol×K	342.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	231.36	J/mol×K	343.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	231.73	J/molxK	345.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	232.11	J/molxK	346.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	232.49	J/molxK	348.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	232.87	J/molxK	349.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	233.25	J/molxK	351.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K

cpl	233.63	J/molxK	352.65	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	223.16	J/molxK	309.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
cpl	234.28	J/molxK	355.15	Heat Capacity of alpha,omega-Bromochloroalkanes and ?,?-Dibromoalkanes: Their Dependence on the Hydrocarbon Chain Length and Temperature (285.15 to 355.15) K
dvisc	0.0004068	Paxs	446.12	Joback Method
dvisc	0.0018956	Paxs	295.78	Joback Method
dvisc	0.0031782	Paxs	265.71	Joback Method
dvisc	0.0008762	Paxs	355.91	Joback Method
dvisc	0.0006520	Paxs	385.98	Joback Method
dvisc	0.0005063	Paxs	416.05	Joback Method
dvisc	0.0012437	Paxs	325.85	Joback Method
hvapt	54.40	kJ/mol	472.50	NIST Webbook
rfi	1.50990		298.15	Thermodynamic study of (alkyl esters + a,x-alkyl dihalides) II: HE m and V E m for 25 binary mixtures {xCu-1H2u-1CO2C2H5 + (1 - x)a,x-BrCH2(CH2)v-2CH2Br}, where u = 1 to 5, a = 1 and v = x = 2 to 6
srf	0.04	N/m	293.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes

srf	0.04	N/m	298.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes
srf	0.04	N/m	303.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes
srf	0.04	N/m	308.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes
srf	0.04	N/m	313.15	The additivity of surface and volumetric properties of alpha,omega-dihalogenoalkanes

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	383.20	K	2.00	NIST Webbook
tbrp	383.00	K	2.00	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.54315e+01
Coeff. B	-4.50494e+03
Coeff. C	-7.88850e+01
Temperature range (K), min.	376.36
Temperature range (K), max.	524.03

## Datasets



## Speed of sound, m/s

Temperature, K - Liquid	Pressure, kPa - Liquid	Speed of sound, m/s - Liquid
292.38	100.00	1149.48
292.47	91200.00	1353.98
292.48	30400.00	1226.21
292.50	45600.00	1260.76
292.52	60800.00	1293.37
292.53	15210.00	1189.09
292.57	101320.00	1372.23
292.59	76010.00	1324.36
298.00	60800.00	1281.15
298.00	91200.00	1342.44
298.00	101330.00	1361.63
298.01	45600.00	1247.97
298.02	30410.00	1212.72
298.03	15210.00	1174.79
298.05	76000.00	1312.6
298.37	100.00	1133.01
303.00	76000.00	1301.95
303.01	15200.00	1162.07
303.01	30400.00	1200.58
303.01	60790.00	1270.04
303.01	91200.00	1331.8
303.01	101340.00	1350.72
303.02	45600.00	1236.47
303.40	100.00	1119.29
308.03	15210.00	1148.74
308.03	30410.00	1187.74
308.03	45590.00	1223.97
308.05	101330.00	1340.01
308.06	60790.00	1257.88
308.06	76000.00	1290.08
308.06	91200.00	1320.46
308.38	100.00	1105.79
313.14	76030.00	1279.29
313.16	91210.00	1310.12
313.16	101330.00	1329.99
313.17	45610.00	1212.35
313.18	60800.00	1246.82
313.20	15210.00	1135.8
313.20	30410.00	1175.46

## Sources

- Heat Capacity of  
 alpha,omega-Bromochloroalkanes and  
 The thermodynamic study of (alkyl esters +  
 alpha,omega-alkyl dihalides) I: Chain length and  
 Crippen Method: 2005.07.009  
 {xCu-1H2u-1CO2C2H5 + (1 -  
 x)BrCH2(CH2)v-2CH2Br}, where u =  
 Properties of 1,3-Dibromopropane and  
 The thermodynamic study of (alkyl esters +  
 alpha,beta-alkyl dihalides) 2006.05.006  
 and Density (C<sub>2</sub>(OH)<sub>2</sub>CO) + n-pentane +  
 McGowan Method: The Temperature Range  
 from 293.15 K to 313.15 K, and v =  
 Pressure, - to 6:  
 Joback Method:  
 NIST Webbook:  
 Crippen Method:
- <https://www.doi.org/10.1021/je201002j>  
<https://www.doi.org/10.1016/j.jct.2005.07.009>  
<http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
<https://www.doi.org/10.1007/s10765-009-0610-6>  
<https://www.doi.org/10.1016/j.jct.2009.05.006>  
<https://www.doi.org/10.1021/je060200b>  
<http://link.springer.com/article/10.1007/BF02311772>  
<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>  
[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)  
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C111240&Units=SI>  
[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)
- The additivity of surface and volumetric  
 properties of  
 alpha,omega-alkyl dihalides +  
 alpha,omega-alkyl dihalides) IV: Hex  
 and Vex for 25 binary mixtures  
 {xC(u-1)H(2u-1)CO2CH3 +  
 (1-x)alpha,omega-BrCH2(CH2)(v-2)CH2Br},  
 where u = 1 to 6, alpha = 1 and v =  
 omega = 2 to 6.
- <https://www.doi.org/10.1016/j.jct.2018.12.042>  
<https://www.doi.org/10.1016/j.jct.2006.05.004>

## Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
vpv:	Vapor pressure
rfi:	Refractive Index

<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>speedsl:</b>	Speed of sound in fluid
<b>srf:</b>	Surface Tension
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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