

# Benzoic acid

Other names:	Acide benzoique
	BENZOATE
	Benzenecarboxylic acid
	Benzeneformic acid
	Benzenemethanoic acid
	Benzenemethonic acid
	Benzoesaure
	Benzoesaure GK
	Benzoesaure GV
	Benzoic acid, tech.
	Carboxybenzene
	Diacylic acid
	Dracylic acid
	E 210
	Flowers of benjamin
	Flowers of benzoin
	HA 1
	HA 1 (acid)
	Kyselina benzoova
	NSC 149
	Oracylic acid
	Phenylcarboxy
	Phenylcarboxylic acid
	Phenylformic acid
	Retarder BA
	Retarder BAX
	Retardex
	Salvo powder
	Salvo, liquid
	Solvo, powder
	Tenn-Plas
Inchi:	InChI=1S/C7H6O2/c8-7(9)6-4-2-1-3-5-6/h1-5H,(H,8,9)
InchiKey:	WPYMKLBDIGXBTP-UHFFFAOYSA-N
Formula:	C7H6O2
SMILES:	O=C(O)c1ccccc1
Mol. weight [g/mol]:	122.12
CAS:	65-85-0

# Physical Properties

Property code	Value	Unit	Source
af	0.6200		KDB
affp	821.10	kJ/mol	NIST Webbook
aigt	845.93	K	KDB
basg	790.10	kJ/mol	NIST Webbook
chl	-3227.00 ± 0.20	kJ/mol	NIST Webbook
chs	-3228.79	kJ/mol	NIST Webbook
chs	-3222.50 ± 4.20	kJ/mol	NIST Webbook
chs	-3226.87 ± 0.18	kJ/mol	NIST Webbook
chs	-3254.71 ± 0.41	kJ/mol	NIST Webbook
chs	-3227.30 ± 0.30	kJ/mol	NIST Webbook
chs	-3228.06 ± 0.44	kJ/mol	NIST Webbook
chs	-3227.20 ± 0.50	kJ/mol	NIST Webbook
chs	-3227.30 ± 0.30	kJ/mol	NIST Webbook
chs	-3227.51 ± 0.32	kJ/mol	NIST Webbook
chs	-3227.60 ± 0.30	kJ/mol	NIST Webbook
chs	-3226.39 ± 0.32	kJ/mol	NIST Webbook
chs	-3229.80	kJ/mol	NIST Webbook
chs	-3228.00 ± 0.50	kJ/mol	NIST Webbook
chs	-3231.30	kJ/mol	NIST Webbook
chs	-3229.00	kJ/mol	NIST Webbook
chs	-3226.00	kJ/mol	NIST Webbook
chs	-3231.97	kJ/mol	NIST Webbook
chs	-3227.40 ± 0.30	kJ/mol	NIST Webbook
dm	1.70	debye	KDB
fpo	394.26	K	KDB
gf	-210.60	kJ/mol	KDB
hf	-290.40	kJ/mol	KDB
hfs	-386.00	kJ/mol	NIST Webbook
hfs	-384.80 ± 0.50	kJ/mol	NIST Webbook
hfus	18.02	kJ/mol	Odd even effect in melting properties of 12 alkane-a,x-diamides
hfus	16.82	kJ/mol	Thermodynamics of molecular solids in organic solvents
hvap	78.90	kJ/mol	NIST Webbook
ie	9.47	eV	NIST Webbook
ie	9.80 ± 0.20	eV	NIST Webbook
ie	9.73 ± 0.09	eV	NIST Webbook
ie	9.30	eV	NIST Webbook

ie	9.75	eV	NIST Webbook
ie	9.60	eV	NIST Webbook
log10ws	-1.56		Aqueous Solubility Prediction Method
log10ws	-1.55		Aqueous and cosolvent solubility data for drug-like organic compounds
logp	1.385		Crippen Method
mcvol	93.170	ml/mol	McGowan Method
nfpaf	%!d(float64=1)		KDB
nfpah	%!d(float64=2)		KDB
pc	4560.00	kPa	KDB
rinpol	199.20		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	202.69		NIST Webbook
rinpol	200.65		NIST Webbook
rinpol	196.52		NIST Webbook
rinpol	193.90		NIST Webbook
rinpol	195.80		NIST Webbook
rinpol	196.50		NIST Webbook
rinpol	1191.00		NIST Webbook
rinpol	1180.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1193.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1191.00		NIST Webbook
rinpol	1191.00		NIST Webbook
rinpol	1188.80		NIST Webbook
rinpol	1168.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1131.00		NIST Webbook
rinpol	1164.00		NIST Webbook
rinpol	1131.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1148.00		NIST Webbook
rinpol	1214.00		NIST Webbook

rinpol	1172.00	NIST Webbook
rinpol	1161.00	NIST Webbook
rinpol	1138.00	NIST Webbook
rinpol	1197.00	NIST Webbook
rinpol	1210.00	NIST Webbook
rinpol	1170.00	NIST Webbook
rinpol	1163.00	NIST Webbook
rinpol	1149.00	NIST Webbook
rinpol	1150.00	NIST Webbook
rinpol	1167.00	NIST Webbook
rinpol	1164.00	NIST Webbook
rinpol	1184.00	NIST Webbook
rinpol	1164.00	NIST Webbook
rinpol	1165.00	NIST Webbook
rinpol	1160.00	NIST Webbook
rinpol	1159.00	NIST Webbook
rinpol	1162.00	NIST Webbook
rinpol	1163.00	NIST Webbook
rinpol	1199.00	NIST Webbook
rinpol	1197.00	NIST Webbook
rinpol	1152.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1171.00	NIST Webbook
rinpol	1196.00	NIST Webbook
rinpol	1210.00	NIST Webbook
rinpol	1155.00	NIST Webbook
rinpol	1135.00	NIST Webbook
rinpol	1167.00	NIST Webbook
rinpol	1180.00	NIST Webbook
rinpol	1143.00	NIST Webbook
ripol	2410.00	NIST Webbook
ripol	2405.00	NIST Webbook
ripol	2409.00	NIST Webbook
ripol	2390.00	NIST Webbook
ripol	2407.00	NIST Webbook
ripol	2390.00	NIST Webbook
ripol	2410.00	NIST Webbook
ripol	2385.00	NIST Webbook
ripol	2410.00	NIST Webbook
ripol	2409.00	NIST Webbook
ripol	2400.00	NIST Webbook
ripol	2432.00	NIST Webbook
ripol	2416.00	NIST Webbook
ripol	2455.00	NIST Webbook

ripol	2389.00	NIST Webbook
ripol	2404.00	NIST Webbook
ripol	2428.00	NIST Webbook
ripol	2408.00	NIST Webbook
ripol	2408.00	NIST Webbook
ripol	2457.00	NIST Webbook
ripol	2449.00	NIST Webbook
ripol	2425.00	NIST Webbook
ripol	2451.00	NIST Webbook
ripol	2449.00	NIST Webbook
ripol	2417.00	NIST Webbook
ripol	2448.00	NIST Webbook
ripol	2438.00	NIST Webbook
ripol	2399.00	NIST Webbook
ripol	2428.00	NIST Webbook
ripol	2433.00	NIST Webbook
ripol	2399.00	NIST Webbook
ripol	2435.00	NIST Webbook
ripol	2432.00	NIST Webbook
ripol	2380.00	NIST Webbook
ripol	2426.00	NIST Webbook
ripol	2417.00	NIST Webbook
ripol	2419.00	NIST Webbook
ripol	2433.00	NIST Webbook
ripol	2444.00	NIST Webbook
ripol	2420.00	NIST Webbook
ripol	2408.00	NIST Webbook
ripol	2433.00	NIST Webbook
ripol	2412.00	NIST Webbook
ripol	2387.00	NIST Webbook
ripol	2446.00	NIST Webbook
ripol	2380.00	NIST Webbook
ripol	2444.00	NIST Webbook
ripol	2380.00	NIST Webbook
ripol	2420.00	NIST Webbook
ripol	2423.00	NIST Webbook
ripol	2405.00	NIST Webbook
ripol	2420.00	NIST Webbook
ripol	2423.00	NIST Webbook
ripol	2420.00	NIST Webbook
ripol	2436.00	NIST Webbook
ripol	2387.00	NIST Webbook
ripol	2420.00	NIST Webbook
ripol	2401.00	NIST Webbook

ripol	2391.00		NIST Webbook
ripol	2392.00		NIST Webbook
ripol	2400.00		NIST Webbook
ripol	2408.00		NIST Webbook
ss	170.70	J/molxK	NIST Webbook
ss	167.82	J/molxK	NIST Webbook
ss	167.59	J/molxK	NIST Webbook
ss	167.73	J/molxK	NIST Webbook
ss	165.71	J/molxK	NIST Webbook
tb	523.00	K	KDB
tb	523.59 ± 0.20	K	NIST Webbook
tb	523.18 ± 0.20	K	NIST Webbook
tb	522.00	K	NIST Webbook
tb	522.20	K	NIST Webbook
tc	755.00	K	Vapor-liquid critical point measurements of fifteen compounds by the pulse-heating method
tc	752.00	K	KDB
tf	395.15	K	Liquid pharmaceuticals formulation by eutectic formation
tf	395.55	K	Aqueous Solubility Prediction Method
tf	395.60	K	KDB
tf	394.70 ± 1.00	K	NIST Webbook
tf	394.95 ± 0.20	K	NIST Webbook
tf	395.60 ± 0.06	K	NIST Webbook
tf	395.55 ± 0.06	K	NIST Webbook
tf	395.57 ± 0.06	K	NIST Webbook
tf	395.62 ± 0.06	K	NIST Webbook
tf	395.58 ± 0.15	K	NIST Webbook
tf	395.00 ± 2.00	K	NIST Webbook
tf	390.00 ± 1.00	K	NIST Webbook
tf	393.65 ± 1.50	K	NIST Webbook
tf	395.60	K	Abraham model correlations for describing the thermodynamic properties of solute transfer into pentyl acetate based on headspace chromatographic and solubility measurements
tf	395.25 ± 0.40	K	NIST Webbook
tf	395.00 ± 2.00	K	NIST Webbook
tf	394.65 ± 0.40	K	NIST Webbook
tf	395.70 ± 0.10	K	NIST Webbook
tf	395.00	K	NIST Webbook
tf	395.15 ± 1.00	K	NIST Webbook

tf	395.53 ± 0.00	K	NIST Webbook
tf	395.15 ± 1.00	K	NIST Webbook
tf	395.50 ± 0.01	K	NIST Webbook
tf	395.00	K	Polar Mixed-Solid Solute Systems in Supercritical Carbon Dioxide: Entrainer Effect and Its Influence on Solubility and Selectivity
tf	395.50	K	Solid-Liquid Equilibria for Benzoic Acid + p-Toluic Acid + Chloroform, Benzoic Acid + p-Toluic Acid + Acetic Acid, and Terephthalic Acid + Isophthalic Acid + N,N-Dimethylformamide
tf	395.30	K	Isothermal Thermogravimetric Study for Determining Sublimation Enthalpies of Some Hydroxyflavones
tf	395.50	K	The use of organic calibration standards in the enthalpy calibration of differential scanning calorimeters
tf	394.65 ± 1.50	K	NIST Webbook
tf	395.37	K	Vapour pressures of selected organic compounds down to 1 mPa, using mass-loss Knudsen effusion method
tt	395.52 ± 0.01	K	NIST Webbook
tt	395.52 ± 0.01	K	NIST Webbook
tt	392.50	K	Solubility Determination of Nicotinamide and Its Application for the Cocrystallization with Benzoic Acid
tt	396.80	K	Solid-Liquid Equilibrium Measurements for Posaconazole and Voriconazole in Several Solvents between T = 278.2 and 323.2 K Using Differential Thermal Analysis/Thermal Gravimetric Analysis
tt	395.63	K	Solubility Data for Roflumilast and Maraviroc in Various Solvents between T = (278.2-323.2) K
tt	395.52 ± 0.01	K	NIST Webbook
tt	395.52 ± 0.01	K	NIST Webbook
vc	0.341	m <sup>3</sup> /kmol	KDB
zc	0.2486940		KDB

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.56	J/molxK	567.22	Joback Method
cpg	237.41	J/molxK	741.85	Joback Method
cpg	231.43	J/molxK	706.92	Joback Method
cpg	224.97	J/molxK	672.00	Joback Method
cpg	218.03	J/molxK	637.07	Joback Method
cpg	210.57	J/molxK	602.14	Joback Method
cpg	193.99	J/molxK	532.29	Joback Method
cpl	259.00	J/molxK	413.00	NIST Webbook
cps	146.23	J/molxK	296.29	NIST Webbook
cps	146.31	J/molxK	298.15	NIST Webbook
cps	155.20	J/molxK	298.00	NIST Webbook
cps	145.10	J/molxK	295.10	NIST Webbook
cps	160.20	J/molxK	323.00	NIST Webbook
cps	146.81	J/molxK	298.15	NIST Webbook
cps	146.81	J/molxK	298.15	NIST Webbook
cps	149.79	J/molxK	298.15	NIST Webbook
cps	147.02	J/molxK	298.15	NIST Webbook
cps	130.00	J/molxK	340.00	NIST Webbook
cps	147.14	J/molxK	299.99	NIST Webbook
cps	167.40	J/molxK	298.15	NIST Webbook
cps	146.80	J/molxK	298.15	NIST Webbook
cps	149.00	J/molxK	301.00	NIST Webbook
cps	147.07	J/molxK	299.62	NIST Webbook
cps	146.79	J/molxK	298.15	NIST Webbook
cps	7.24	J/molxK	15.95	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	7.83	J/molxK	17.21	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K



cps	9.96	J/mol×K	19.00	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	12.14	J/mol×K	20.93	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	14.48	J/mol×K	22.91	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	16.99	J/mol×K	25.23	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	19.32	J/mol×K	27.83	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	22.55	J/mol×K	30.45	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	25.66	J/mol×K	33.46	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	28.56	J/mol×K	36.82	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	31.83	J/mol×K	40.35	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	34.49	J/mol×K	42.49	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	35.05	J/mol×K	44.38	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	38.04	J/mol×K	46.36	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	39.20	J/mol×K	50.06	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	40.57	J/mol×K	52.26	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	41.94	J/mol×K	54.24	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	43.06	J/mol×K	54.48	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	43.66	J/mol×K	56.71	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	46.10	J/mol×K	59.17	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	45.51	J/mol×K	59.64	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	47.67	J/mol×K	63.04	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	50.03	J/mol×K	67.38	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	52.48	J/mol×K	72.18	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	54.70	J/mol×K	77.01	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	56.45	J/mol×K	81.66	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	58.38	J/mol×K	86.47	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	60.83	J/mol×K	91.42	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	62.66	J/mol×K	96.33	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	64.69	J/mol×K	101.31	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	66.75	J/mol×K	106.39	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	68.59	J/mol×K	111.42	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	70.27	J/mol×K	116.46	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	72.23	J/mol×K	121.51	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	74.39	J/mol×K	126.57	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	76.40	J/mol×K	131.52	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	78.39	J/mol×K	136.54	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	80.14	J/mol×K	141.64	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	81.95	J/mol×K	146.72	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	83.84	J/mol×K	151.83	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	85.94	J/mol×K	156.96	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	87.95	J/mol×K	162.08	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	90.16	J/mol×K	167.21	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	92.08	J/mol×K	172.34	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	93.88	J/mol×K	177.47	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	95.82	J/mol×K	182.61	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	97.76	J/mol×K	187.75	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	100.22	J/mol×K	192.89	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	102.35	J/mol×K	198.03	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	104.33	J/mol×K	203.11	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	106.33	J/mol×K	208.20	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	108.35	J/mol×K	213.34	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	110.69	J/mol×K	218.49	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	113.13	J/mol×K	223.64	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	115.06	J/mol×K	228.80	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	117.66	J/mol×K	233.96	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	120.10	J/mol×K	239.10	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	122.38	J/mol×K	244.26	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K



cps	124.56	J/mol×K	249.39	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	127.05	J/mol×K	254.51	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	129.62	J/mol×K	259.67	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	131.98	J/mol×K	264.84	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	134.13	J/mol×K	269.99	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	137.14	J/mol×K	275.13	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	138.73	J/mol×K	280.31	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	141.06	J/mol×K	285.48	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	143.42	J/mol×K	290.65	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	146.34	J/mol×K	296.60	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	148.97	J/mol×K	302.17	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	151.12	J/mol×K	306.93	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	153.27	J/mol×K	312.15	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	155.37	J/mol×K	317.33	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K

cps	157.74	J/mol×K	322.49	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	160.60	J/mol×K	326.50	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	161.44	J/mol×K	330.48	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	163.80	J/mol×K	335.65	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	165.96	J/mol×K	340.82	Design and construction of an adiabatic calorimeter for samples of less than 1 cm <sup>3</sup> in the temperature range T=15 K to T=350 K
cps	146.06	J/mol×K	298.15	Reassembling and testing of a high-precision heat capacity drop calorimeter. Heat capacity of some polyphenyls at T = 298.15 K
cps	2.27	J/mol×K	10.26	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C <sub>5</sub> H <sub>10</sub> O <sub>5</sub> )

cps	3.02	J/molxK	11.36	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	3.97	J/molxK	12.61	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	5.14	J/molxK	13.99	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	6.54	J/molxK	15.52	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	8.22	J/molxK	17.23	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	10.17	J/molxK	19.12	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	12.39	J/molxK	21.21	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	14.97	J/molxK	23.54	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	17.79	J/molxK	26.10	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)

cps	20.88	J/mol×K	28.96	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	24.14	J/mol×K	32.16	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	27.61	J/mol×K	35.67	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	31.21	J/mol×K	39.58	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	34.80	J/mol×K	43.90	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	38.39	J/mol×K	48.73	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	42.02	J/mol×K	54.07	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	45.71	J/mol×K	60.00	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)

cps	49.33	J/mol×K	66.57	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	52.81	J/mol×K	73.89	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	56.69	J/mol×K	82.00	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	60.28	J/mol×K	91.01	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	63.46	J/mol×K	100.97	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	67.66	J/mol×K	111.11	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	71.28	J/mol×K	121.20	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	75.08	J/mol×K	131.23	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	78.93	J/mol×K	141.33	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)

cps	82.66	J/molxK	151.47	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	86.28	J/molxK	161.56	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	90.21	J/molxK	171.65	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	94.38	J/molxK	181.75	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	98.14	J/molxK	191.83	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	101.91	J/molxK	201.92	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	106.35	J/molxK	212.02	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	110.99	J/molxK	222.12	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)

cps	115.40	J/mol×K	232.21	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	119.97	J/mol×K	242.21	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	124.67	J/mol×K	252.40	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	128.80	J/mol×K	262.46	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	133.51	J/mol×K	272.51	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	138.20	J/mol×K	282.55	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	141.62	J/mol×K	292.70	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)
cps	144.34	J/mol×K	302.71	Low-temperature heat capacity and standard thermodynamic functions of .beta.-D-(-)-arabinose (C5H10O5)



cps	104.86	J/molxK	208.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study	
cps	105.69	J/molxK	210.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study	
cps	106.52	J/molxK	211.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study	
cps	107.61	J/molxK	213.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study	
cps	108.96	J/molxK	216.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study	
cps	146.65	J/molxK	298.15	NIST Webbook	
cps	111.86	J/molxK	221.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study	
cps	113.15	J/molxK	224.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study	

cps	114.43	J/molxK	226.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	114.68	J/molxK	227.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	116.19	J/molxK	230.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	117.68	J/molxK	233.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	119.14	J/molxK	236.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	120.59	J/molxK	239.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	122.50	J/molxK	243.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study

cps	124.38	J/mol×K	247.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	126.69	J/mol×K	252.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	128.74	J/mol×K	256.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	130.54	J/mol×K	260.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	132.10	J/mol×K	264.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	134.09	J/mol×K	268.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	135.19	J/mol×K	271.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study

cps	136.06	J/molxK	273.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	137.59	J/molxK	276.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	138.90	J/molxK	279.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	140.41	J/molxK	283.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	142.15	J/molxK	287.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	144.10	J/molxK	291.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	144.31	J/molxK	292.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study

cps	144.75	J/mol×K	293.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	145.18	J/mol×K	294.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	145.61	J/mol×K	295.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	146.70	J/mol×K	297.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	146.89	J/mol×K	298.15	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	146.92	J/mol×K	298.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	147.13	J/mol×K	298.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study

cps	148.44	J/molxK	301.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	149.32	J/molxK	303.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	150.19	J/molxK	305.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	151.07	J/molxK	307.72	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	152.18	J/molxK	310.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	153.96	J/molxK	314.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	155.75	J/molxK	318.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study

cps	157.11	J/molxK	321.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
cps	2.28	J/molxK	10.24	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	2.58	J/molxK	10.71	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	2.90	J/molxK	11.18	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	3.26	J/molxK	11.68	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	3.65	J/molxK	12.20	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	4.07	J/molxK	12.74	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	4.54	J/molxK	13.30	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	5.05	J/molxK	13.89	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	5.60	J/molxK	14.50	Low-temperature heat capacity measurements on insulating powders sealed under pressure

cps	6.19	J/mol×K	15.14	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	6.66	J/mol×K	15.64	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	8.09	J/mol×K	17.10	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	9.72	J/mol×K	18.69	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	11.56	J/mol×K	20.41	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	13.61	J/mol×K	22.32	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	15.91	J/mol×K	24.40	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	18.40	J/mol×K	26.66	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	20.97	J/mol×K	29.13	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	23.77	J/mol×K	31.84	Low-temperature heat capacity measurements on insulating powders sealed under pressure



cps	26.64	J/mol×K	34.80	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	29.60	J/mol×K	38.03	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	32.79	J/mol×K	41.56	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	35.88	J/mol×K	45.42	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	39.11	J/mol×K	49.63	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	42.18	J/mol×K	54.24	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	45.06	J/mol×K	59.28	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	47.92	J/mol×K	64.78	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	50.65	J/mol×K	70.79	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	53.75	J/mol×K	77.36	Low-temperature heat capacity measurements on insulating powders sealed under pressure

cps	57.18	J/mol×K	84.51	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	61.03	J/mol×K	92.38	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	64.26	J/mol×K	100.95	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	67.64	J/mol×K	110.98	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	71.22	J/mol×K	121.09	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	75.19	J/mol×K	131.21	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	78.86	J/mol×K	141.28	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	82.29	J/mol×K	151.34	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	85.76	J/mol×K	161.49	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	90.18	J/mol×K	171.59	Low-temperature heat capacity measurements on insulating powders sealed under pressure

cps	95.02	J/mol×K	181.67	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	98.70	J/mol×K	191.74	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	102.27	J/mol×K	201.82	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	106.37	J/mol×K	211.92	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	112.07	J/mol×K	222.00	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	117.31	J/mol×K	232.09	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	119.60	J/mol×K	242.17	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	124.22	J/mol×K	252.25	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	128.72	J/mol×K	262.35	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	133.00	J/mol×K	272.46	Low-temperature heat capacity measurements on insulating powders sealed under pressure

cps	137.80	J/mol×K	282.54	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	141.72	J/mol×K	292.59	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	146.37	J/mol×K	302.66	Low-temperature heat capacity measurements on insulating powders sealed under pressure
cps	2.29	J/mol×K	10.30	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	2.68	J/mol×K	10.90	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	3.09	J/mol×K	11.50	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	3.53	J/mol×K	12.10	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	4.00	J/mol×K	12.71	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	4.50	J/mol×K	13.33	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	5.02	J/mol×K	13.94	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	5.57	J/mol×K	14.56	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	6.13	J/molxK	15.17	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	6.82	J/molxK	15.90	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	7.64	J/molxK	16.73	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	8.47	J/molxK	17.56	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	9.33	J/molxK	18.39	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	10.21	J/molxK	19.22	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	11.09	J/molxK	20.06	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	12.34	J/molxK	21.19	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	13.90	J/molxK	22.62	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	15.49	J/molxK	24.04	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	17.05	J/molxK	25.46	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	18.61	J/molxK	26.89	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	20.19	J/molxK	28.33	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	21.74	J/molxK	29.77	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	23.43	J/molxK	31.37	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	25.21	J/molxK	33.11	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	26.94	J/molxK	34.87	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	28.60	J/molxK	36.62	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	30.21	J/molxK	38.37	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	31.74	J/molxK	40.13	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	33.33	J/molxK	41.98	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	34.99	J/molxK	43.94	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	36.51	J/molxK	45.90	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	38.01	J/molxK	47.87	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	39.43	J/molxK	49.84	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	40.77	J/molxK	51.81	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	42.06	J/molxK	53.78	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	43.33	J/molxK	55.75	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	44.56	J/molxK	57.72	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	45.75	J/molxK	59.69	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	46.91	J/molxK	61.67	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	48.01	J/molxK	63.65	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	49.04	J/molxK	65.63	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	50.10	J/molxK	67.61	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	51.07	J/molxK	69.60	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	52.00	J/molxK	71.59	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	52.93	J/molxK	73.59	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	53.90	J/molxK	75.59	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	54.88	J/molxK	77.59	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	56.16	J/molxK	80.71	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	56.92	J/molxK	82.55	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	57.66	J/molxK	84.38	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	58.43	J/molxK	86.22	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	59.17	J/molxK	88.06	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	59.92	J/molxK	89.91	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	60.64	J/molxK	91.62	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	60.69	J/molxK	91.76	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	61.50	J/molxK	93.75	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State



cps	62.21	J/molxK	95.60	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	62.98	J/molxK	97.45	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	63.71	J/molxK	99.31	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	64.44	J/molxK	101.17	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	65.18	J/molxK	103.02	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	65.85	J/molxK	104.89	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	66.57	J/molxK	106.75	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	67.29	J/molxK	108.62	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	68.01	J/molxK	110.49	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	68.69	J/molxK	112.36	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	69.38	J/molxK	114.23	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	70.13	J/molxK	116.10	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	70.81	J/molxK	117.97	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	71.50	J/molxK	119.85	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	72.20	J/molxK	121.73	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	72.89	J/molxK	123.61	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	73.60	J/molxK	125.49	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	74.30	J/molxK	127.38	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	75.00	J/molxK	129.26	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	75.72	J/molxK	131.15	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	76.42	J/molxK	133.03	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	77.12	J/molxK	134.92	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	77.81	J/molxK	136.81	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	78.54	J/molxK	138.70	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	79.26	J/molxK	140.60	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	79.99	J/molxK	142.49	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	80.73	J/molxK	144.38	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	81.45	J/molxK	146.27	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	82.16	J/molxK	148.17	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	82.89	J/molxK	150.07	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	83.64	J/molxK	151.98	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	84.39	J/molxK	153.88	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	85.06	J/molxK	155.78	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	85.81	J/molxK	157.69	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	86.55	J/molxK	159.60	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	87.30	J/molxK	161.50	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	88.05	J/molxK	163.41	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	88.80	J/molxK	165.32	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	89.55	J/molxK	167.23	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	90.30	J/molxK	169.14	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	91.04	J/molxK	171.05	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	91.79	J/molxK	172.96	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	92.62	J/molxK	174.88	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	93.37	J/molxK	176.79	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	94.12	J/molxK	178.70	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	94.95	J/molxK	180.62	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	95.78	J/molxK	182.54	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	96.53	J/molxK	184.47	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	97.28	J/molxK	186.39	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	98.11	J/molxK	188.31	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	98.94	J/molxK	190.22	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	99.77	J/molxK	192.14	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	100.50	J/molxK	194.07	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	101.40	J/molxK	195.99	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	102.20	J/molxK	197.92	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	103.00	J/molxK	199.85	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	103.80	J/molxK	201.78	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	104.60	J/molxK	203.71	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	105.40	J/molxK	205.64	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	106.30	J/molxK	207.57	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	107.10	J/molxK	209.50	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	107.90	J/molxK	211.44	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	108.70	J/molxK	213.37	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	109.50	J/molxK	215.31	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	110.30	J/molxK	217.24	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	111.20	J/molxK	219.18	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	112.00	J/molxK	221.12	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	112.70	J/molxK	222.63	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	112.80	J/molxK	223.05	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	113.70	J/molxK	224.76	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	113.70	J/molxK	224.99	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	114.40	J/molxK	226.70	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	114.60	J/molxK	226.93	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	115.20	J/molxK	228.63	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	115.40	J/molxK	228.87	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	116.20	J/molxK	230.56	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	117.10	J/molxK	232.50	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	117.80	J/molxK	234.43	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	118.70	J/molxK	236.36	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	119.60	J/molxK	238.29	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	120.50	J/molxK	240.23	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	121.30	J/molxK	242.16	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	122.20	J/molxK	244.10	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	123.10	J/molxK	246.04	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	123.90	J/molxK	247.97	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	124.80	J/molxK	249.91	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	125.70	J/molxK	251.84	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	126.50	J/molxK	253.79	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	127.50	J/molxK	255.73	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	128.30	J/molxK	257.66	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	129.30	J/molxK	259.60	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	130.10	J/molxK	261.54	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	131.00	J/molxK	263.47	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	131.90	J/molxK	265.41	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	132.80	J/molxK	267.35	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	133.70	J/molxK	269.28	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State



cps	134.50	J/mol×K	271.22	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	135.40	J/mol×K	273.16	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	136.30	J/mol×K	275.10	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	137.20	J/mol×K	277.03	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	138.00	J/mol×K	278.97	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	138.90	J/mol×K	280.91	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	139.80	J/mol×K	282.84	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	140.70	J/mol×K	284.79	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	141.60	J/mol×K	286.73	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	142.50	J/mol×K	288.67	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	143.40	J/mol×K	290.61	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	144.30	J/mol×K	292.55	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	145.20	J/molxK	294.49	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	146.10	J/molxK	296.43	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	146.90	J/molxK	298.37	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	147.80	J/molxK	300.31	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	148.70	J/molxK	302.25	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	149.70	J/molxK	304.19	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	150.60	J/molxK	306.13	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	151.40	J/molxK	308.07	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	152.30	J/molxK	310.01	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	153.20	J/molxK	311.95	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	154.20	J/molxK	313.89	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	155.10	J/molxK	315.83	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	155.90	J/molxK	317.78	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	156.70	J/molxK	319.73	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	157.60	J/molxK	321.67	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	158.60	J/molxK	323.61	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	159.50	J/molxK	325.56	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	160.30	J/molxK	327.50	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	161.20	J/molxK	329.44	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	162.00	J/molxK	331.39	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	162.90	J/molxK	333.34	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	163.70	J/molxK	335.28	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	164.50	J/molxK	337.23	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	165.50	J/molxK	339.17	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	166.30	J/molxK	341.12	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	167.30	J/molxK	343.06	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	168.10	J/molxK	345.01	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	169.00	J/molxK	346.95	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	169.90	J/molxK	348.90	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	170.80	J/molxK	350.86	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	171.60	J/molxK	352.80	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	172.40	J/molxK	354.75	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	173.30	J/molxK	356.69	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	174.20	J/molxK	358.64	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	175.10	J/molxK	360.58	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	175.90	J/molxK	362.53	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State

cps	176.90	J/molxK	364.49	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	177.80	J/molxK	366.44	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	178.60	J/molxK	368.39	Thermodynamic Properties of [C6mim][NTf2] in the Condensed State
cps	147.78	J/molxK	300.00	NIST Webbook
cps	147.03	J/molxK	298.90	NIST Webbook
cps	110.02	J/molxK	218.22	Enthalpies of sublimation of L-methionine and DL-methionine: Knudsen's effusion mass spectrometric study
dvisc	0.0003697	Paxs	456.80	Joback Method
dvisc	0.0013384	Paxs	381.31	Joback Method
dvisc	0.0031482	Paxs	343.57	Joback Method
dvisc	0.0002251	Paxs	494.54	Joback Method
dvisc	0.0091461	Paxs	305.82	Joback Method
dvisc	0.0001471	Paxs	532.29	Joback Method
dvisc	0.0006638	Paxs	419.06	Joback Method
hfust	17.32	kJ/mol	395.00	NIST Webbook
hfust	16.99	kJ/mol	396.90	NIST Webbook
hfust	18.00	kJ/mol	395.52	NIST Webbook
hfust	17.30	kJ/mol	394.40	NIST Webbook
hfust	17.40	kJ/mol	395.00	NIST Webbook
hfust	17.10	kJ/mol	395.40	NIST Webbook
hfust	16.23	kJ/mol	395.00	NIST Webbook
hfust	18.01	kJ/mol	395.52	NIST Webbook
hfust	17.99	kJ/mol	395.50	NIST Webbook
hsubt	90.00 ± 0.50	kJ/mol	308.00	NIST Webbook
hsubt	90.90 ± 2.00	kJ/mol	375.00	NIST Webbook
hsubt	89.23	kJ/mol	298.15	NIST Webbook
hsubt	84.50 ± 0.50	kJ/mol	385.50	NIST Webbook
hsubt	90.50 ± 0.30	kJ/mol	358.50	NIST Webbook
hsubt	86.70	kJ/mol	328.00	NIST Webbook
hsubt	88.70 ± 0.90	kJ/mol	310.50	NIST Webbook
hsubt	87.50 ± 0.30	kJ/mol	335.00	NIST Webbook
hsubt	90.80 ± 0.60	kJ/mol	306.00	NIST Webbook
hsubt	95.10 ± 1.80	kJ/mol	294.00	NIST Webbook

hsubt	87.80	kJ/mol	398.00	NIST Webbook
hsubt	91.00 ± 2.00	kJ/mol	303.00	NIST Webbook
hsubt	89.50 ± 0.05	kJ/mol	353.50	NIST Webbook
hsubt	84.10 ± 0.80	kJ/mol	318.00	NIST Webbook
hsubt	85.00 ± 2.00	kJ/mol	369.50	NIST Webbook
hsubt	88.30 ± 2.90	kJ/mol	302.00	NIST Webbook
hsubt	88.50 ± 1.60	kJ/mol	305.50	NIST Webbook
hsubt	92.90 ± 0.20	kJ/mol	295.50	NIST Webbook
hsubt	88.10 ± 0.20	kJ/mol	302.00	NIST Webbook
hsubt	89.00 ± 0.40	kJ/mol	360.50	NIST Webbook
hsubt	89.30 ± 0.40	kJ/mol	360.50	NIST Webbook
hsubt	90.00 ± 0.30	kJ/mol	300.50	NIST Webbook
hsubt	86.60 ± 1.30	kJ/mol	302.50	NIST Webbook
hsubt	89.10	kJ/mol	314.00	NIST Webbook
hsubt	90.40 ± 0.80	kJ/mol	358.00	NIST Webbook
hsubt	86.60 ± 1.70	kJ/mol	302.50	NIST Webbook
hsubt	88.90 ± 0.50	kJ/mol	363.00	NIST Webbook
hsubt	90.90	kJ/mol	299.00	NIST Webbook
hsubt	84.20 ± 0.80	kJ/mol	318.00	NIST Webbook
hsubt	89.10 ± 0.20	kJ/mol	345.00	NIST Webbook
hsubt	85.80	kJ/mol	361.00	NIST Webbook
hsubt	93.00 ± 4.00	kJ/mol	312.50	NIST Webbook
hvapt	50.63	kJ/mol	523.00	KDB
hvapt	90.80	kJ/mol	308.21	Enthalpy of sublimation of natural aromatic amino acids determined by Knudsen's effusion mass spectrometric method
hvapt	87.30	kJ/mol	357.00	Sublimation and thermal decomposition of ammonia borane: Competitive processes controlled by pressure
hvapt	90.50	kJ/mol	331.00	Studying the sublimation thermodynamics of ethionamide and pyridine carbothioamide isomers by transpiration method
hvapt	87.45	kJ/mol	335.00	NIST Webbook
hvapt	63.30 ± 0.60	kJ/mol	408.50	NIST Webbook
hvapt	66.30	kJ/mol	464.00	NIST Webbook

hvapt	67.80	kJ/mol	398.00	NIST Webbook
hvapt	65.40	kJ/mol	428.00	NIST Webbook
hvapt	67.70	kJ/mol	460.50	NIST Webbook
hvapt	90.20	kJ/mol	348.00	Evaluation of sublimation enthalpy by thermogravimetry: Analysis of the diffusion effects in the case of methyl and phenyl substituted hydantoins
psub	1.55e-04	kPa	301.04	The design, construction, and testing of a new Knudsen effusion apparatus
psub	4.36e-04	kPa	309.63	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	7.54e-04	kPa	314.59	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	7.38e-04	kPa	314.40	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	1.27e-03	kPa	319.48	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	2.12e-03	kPa	324.39	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	3.43e-03	kPa	329.20	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation

psub	5.54e-03	kPa	334.07	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation	
psub	8.73e-03	kPa	338.98	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation	
psub	1.34e-04	kPa	299.33	The design, construction, and testing of a new Knudsen effusion apparatus	
psub	1.31e-04	kPa	299.33	The design, construction, and testing of a new Knudsen effusion apparatus	
psub	1.62e-04	kPa	301.04	The design, construction, and testing of a new Knudsen effusion apparatus	
psub	1.60e-04	kPa	301.04	The design, construction, and testing of a new Knudsen effusion apparatus	
psub	2.50e-04	kPa	304.75	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation	
psub	2.03e-04	kPa	303.16	The design, construction, and testing of a new Knudsen effusion apparatus	
psub	2.01e-04	kPa	303.16	The design, construction, and testing of a new Knudsen effusion apparatus	
psub	2.10e-04	kPa	303.16	The design, construction, and testing of a new Knudsen effusion apparatus	
psub	2.65e-04	kPa	305.24	The design, construction, and testing of a new Knudsen effusion apparatus	



psub	2.61e-04	kPa	305.24	The design, construction, and testing of a new Knudsen effusion apparatus
psub	2.71e-04	kPa	305.24	The design, construction, and testing of a new Knudsen effusion apparatus
psub	1.42e-04	kPa	299.96	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	3.26e-04	kPa	307.13	The design, construction, and testing of a new Knudsen effusion apparatus
psub	3.23e-04	kPa	307.13	The design, construction, and testing of a new Knudsen effusion apparatus
psub	4.14e-04	kPa	309.25	The design, construction, and testing of a new Knudsen effusion apparatus
psub	1.43e-04	kPa	300.03	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	4.20e-04	kPa	309.25	The design, construction, and testing of a new Knudsen effusion apparatus
psub	5.25e-04	kPa	311.30	The design, construction, and testing of a new Knudsen effusion apparatus
psub	5.12e-04	kPa	311.30	The design, construction, and testing of a new Knudsen effusion apparatus
psub	5.24e-04	kPa	311.30	The design, construction, and testing of a new Knudsen effusion apparatus

psub	6.43e-04	kPa	313.20	The design, construction, and testing of a new Knudsen effusion apparatus
psub	6.22e-04	kPa	313.20	The design, construction, and testing of a new Knudsen effusion apparatus
psub	6.47e-04	kPa	313.20	The design, construction, and testing of a new Knudsen effusion apparatus
psub	8.15e-04	kPa	315.27	The design, construction, and testing of a new Knudsen effusion apparatus
psub	7.99e-04	kPa	315.27	The design, construction, and testing of a new Knudsen effusion apparatus
psub	8.30e-04	kPa	315.27	The design, construction, and testing of a new Knudsen effusion apparatus
psub	1.05e-03	kPa	317.32	The design, construction, and testing of a new Knudsen effusion apparatus
psub	1.02e-03	kPa	317.32	The design, construction, and testing of a new Knudsen effusion apparatus
psub	1.01e-03	kPa	317.32	The design, construction, and testing of a new Knudsen effusion apparatus
psub	2.85e-04	kPa	307.15	Sublimation thermodynamics of four fluoroquinolone antimicrobial compounds
psub	1.67e-03	kPa	323.15	Sublimation thermodynamics of four fluoroquinolone antimicrobial compounds

psub	7.51e-03	kPa	338.15	Sublimation thermodynamics of four fluoroquinolone antimicrobial compounds
psub	0.03	kPa	354.15	Sublimation thermodynamics of four fluoroquinolone antimicrobial compounds
psub	1.02e-03	kPa	318.02	The thermodynamic properties of 1-bromoadamantane in the gaseous state
psub	1.69e-03	kPa	322.70	The thermodynamic properties of 1-bromoadamantane in the gaseous state
psub	1.74e-03	kPa	322.99	The thermodynamic properties of 1-bromoadamantane in the gaseous state
psub	2.89e-03	kPa	327.90	The thermodynamic properties of 1-bromoadamantane in the gaseous state
psub	4.57e-03	kPa	332.60	The thermodynamic properties of 1-bromoadamantane in the gaseous state
psub	2.05e-04	kPa	302.99	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	3.78e-04	kPa	308.00	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	6.43e-04	kPa	312.86	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states

psub	6.61e-04	kPa	313.19	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	1.07e-03	kPa	317.89	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	1.10e-03	kPa	317.91	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	1.13e-03	kPa	318.02	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	1.10e-03	kPa	318.02	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	1.83e-03	kPa	322.70	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	1.82e-03	kPa	322.95	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	1.88e-03	kPa	322.99	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	2.98e-03	kPa	327.63	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	3.10e-03	kPa	327.88	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states

psub	3.13e-03	kPa	327.90	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	6.93e-03	kPa	336.46	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	4.82e-03	kPa	332.80	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	4.89e-03	kPa	332.85	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	7.79e-03	kPa	337.71	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
psub	9.50e-04	kPa	316.30	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	1.47e-03	kPa	320.40	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	4.36e-03	kPa	331.62	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation

psub	3.02e-03	kPa	327.40	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	4.95e-03	kPa	332.40	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	8.09e-03	kPa	337.40	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	0.01	kPa	342.30	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	0.02	kPa	347.30	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	0.03	kPa	352.40	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	0.05	kPa	357.40	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods

psub	0.07	kPa	362.50	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	0.11	kPa	367.50	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	2.68e-03	kPa	326.76	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	1.64e-03	kPa	321.91	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	9.69e-04	kPa	316.91	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	5.73e-04	kPa	312.08	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	3.35e-04	kPa	307.27	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	1.93e-04	kPa	302.51	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation

psub	1.08e-04	kPa	297.67	Vapor pressures and vaporization enthalpies of 5-nonanone, linalool and 6-methyl-5-hepten-2-one. Data evaluation
psub	4.08e-04	kPa	309.25	The design, construction, and testing of a new Knudsen effusion apparatus
psub	2.14e-03	kPa	324.00	Benzoic acid derivatives: Evaluation of thermochemical properties with complementary experimental and computational methods
psub	3.32e-04	kPa	307.13	The design, construction, and testing of a new Knudsen effusion apparatus
psub	4.95e-03	kPa	332.60	Thermodynamic properties of 2-adamantanone in the condensed and ideal gaseous states
rhoI	1075.00	kg/m3	403.00	KDB
sfust	44.00	J/molxK	395.00	NIST Webbook
sfust	41.10	J/molxK	395.00	NIST Webbook
sfust	45.51	J/molxK	395.52	NIST Webbook
sfust	45.52	J/molxK	395.52	NIST Webbook
sfust	43.80	J/molxK	395.00	NIST Webbook
ssubt	299.30	J/molxK	298.15	NIST Webbook
svapt	261.00	J/molxK	335.00	NIST Webbook
tcondl	0.14	W/mxK	406.80	Density, Viscosity and Thermal Conductivity of Aqueous Benzoic Acid Mixtures between 375 K and 465 K
tcondl	0.14	W/mxK	424.40	Density, Viscosity and Thermal Conductivity of Aqueous Benzoic Acid Mixtures between 375 K and 465 K



tcondl	0.13	W/m×K	444.90	Density, Viscosity and Thermal Conductivity of Aqueous Benzoic Acid Mixtures between 375 K and 465 K
tcondl	0.13	W/m×K	465.10	Density, Viscosity and Thermal Conductivity of Aqueous Benzoic Acid Mixtures between 375 K and 465 K

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	406.20	K	1.30	NIST Webbook
tbrp	406.00	K	1.30	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.50844e+01
Coeff. B	-4.20667e+03
Coeff. C	-1.20264e+02
Temperature range (K), min.	395.52
Temperature range (K), max.	550.71

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	-7.46843e+01
Coeff. B	-4.45389e+03
Coeff. C	1.47811e+01
Coeff. D	-1.71981e-05
Temperature range (K), min.	395.52
Temperature range (K), max.	560.15

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## Legend

<b>af:</b>	Acentric Factor
<b>affp:</b>	Proton affinity
<b>aigt:</b>	Autoignition Temperature
<b>basg:</b>	Gas basicity
<b>chl:</b>	Standard liquid enthalpy of combustion
<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>cpl:</b>	Liquid phase heat capacity
<b>cps:</b>	Solid phase heat capacity
<b>dm:</b>	Dipole Moment
<b>dvisc:</b>	Dynamic viscosity
<b>fpo:</b>	Flash Point (Open Cup Method)
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>nfpaf:</b>	NFPA Fire Rating
<b>nfpah:</b>	NFPA Health Rating

<b>pc:</b>	Critical Pressure
<b>psub:</b>	Sublimation pressure
<b>pvap:</b>	Vapor pressure
<b>rho:</b>	Liquid Density
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>ss:</b>	Solid phase molar entropy at standard conditions
<b>ssub:</b>	Entropy of sublimation at a given temperature
<b>svapt:</b>	Entropy of vaporization at a given temperature
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tcondl:</b>	Liquid thermal conductivity
<b>tf:</b>	Normal melting (fusion) point
<b>tt:</b>	Triple Point Temperature
<b>vc:</b>	Critical Volume
<b>zc:</b>	Critical Compressibility

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