

Pentane, 2,3-dimethyl-

Other names:	2,3-Dimethylpentane 3,4-Dimethylpentane
Inchi:	InChI=1S/C7H16/c1-5-7(4)6(2)3/h6-7H,5H2,1-4H3
InchiKey:	WGECXQBGLLYSFP-UHFFFAOYSA-N
Formula:	C7H16
SMILES:	CCC(C)C(C)C
Mol. weight [g/mol]:	100.20
CAS:	565-59-3

Physical Properties

Property code	Value	Unit	Source
af	0.2960		KDB
ap	340.750	K	KDB
chl	-4807.80 ± 1.20	kJ/mol	NIST Webbook
chl	-4808.00 ± 1.00	kJ/mol	NIST Webbook
dm	0.00	debye	KDB
gf	0.67	kJ/mol	KDB
hcg	4807.79	kJ/mol	KDB
hcn	4455.668	kJ/mol	KDB
hf	-198.70	kJ/mol	NIST Webbook
hf	-199.40	kJ/mol	KDB
hf	-199.20 ± 1.30	kJ/mol	NIST Webbook
hfl	-233.00 ± 1.00	kJ/mol	NIST Webbook
hfl	-233.50 ± 1.30	kJ/mol	NIST Webbook
hfus	6.84	kJ/mol	Joback Method
hvap	34.23	kJ/mol	NIST Webbook
hvap	34.30 ± 0.10	kJ/mol	NIST Webbook
hvap	34.20 ± 0.10	kJ/mol	NIST Webbook
log10ws	-4.28		Aqueous Solubility Prediction Method
log10ws	-4.28		Estimated Solubility Method
logp	2.688		Crippen Method
mcvol	109.490	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
pc	2958.69 ± 50.66	kPa	NIST Webbook
pc	2908.00 ± 40.53	kPa	NIST Webbook
pc	2910.00 ± 50.00	kPa	NIST Webbook

pc	2910.00	kPa	KDB
rhoc	254.51 ± 5.01	kg/m3	NIST Webbook
rhoc	254.51 ± 5.01	kg/m3	NIST Webbook
rinpol	670.80		NIST Webbook
rinpol	668.80		NIST Webbook
rinpol	671.60		NIST Webbook
rinpol	669.00		NIST Webbook
rinpol	679.40		NIST Webbook
rinpol	671.10		NIST Webbook
rinpol	668.20		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	671.00		NIST Webbook
rinpol	665.00		NIST Webbook
rinpol	669.30		NIST Webbook
rinpol	674.20		NIST Webbook
rinpol	670.00		NIST Webbook
rinpol	669.60		NIST Webbook
rinpol	674.00		NIST Webbook
rinpol	673.20		NIST Webbook
rinpol	676.10		NIST Webbook
rinpol	675.00		NIST Webbook
rinpol	666.38		NIST Webbook
rinpol	663.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	668.20		NIST Webbook
rinpol	670.00		NIST Webbook
rinpol	679.40		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	665.00		NIST Webbook
rinpol	665.00		NIST Webbook
rinpol	674.80		NIST Webbook
rinpol	677.30		NIST Webbook
rinpol	684.10		NIST Webbook
rinpol	670.00		NIST Webbook
rinpol	671.10		NIST Webbook
rinpol	671.00		NIST Webbook
rinpol	671.10		NIST Webbook
rinpol	671.20		NIST Webbook
rinpol	671.00		NIST Webbook
rinpol	679.40		NIST Webbook
rinpol	665.00		NIST Webbook

rinpol	669.90	NIST Webbook
rinpol	658.50	NIST Webbook
rinpol	656.00	NIST Webbook
rinpol	669.00	NIST Webbook
rinpol	658.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	671.60	NIST Webbook
rinpol	673.10	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	668.80	NIST Webbook
rinpol	669.70	NIST Webbook
rinpol	670.50	NIST Webbook
rinpol	671.50	NIST Webbook
rinpol	668.00	NIST Webbook
rinpol	669.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	669.30	NIST Webbook
rinpol	670.20	NIST Webbook
rinpol	671.10	NIST Webbook
rinpol	672.10	NIST Webbook
rinpol	673.10	NIST Webbook
rinpol	674.20	NIST Webbook
rinpol	671.10	NIST Webbook
rinpol	671.20	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	669.00	NIST Webbook
rinpol	668.30	NIST Webbook
rinpol	669.60	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	672.40	NIST Webbook
rinpol	673.90	NIST Webbook
rinpol	675.50	NIST Webbook
rinpol	669.60	NIST Webbook

rinpol	670.00	NIST Webbook
rinpol	670.10	NIST Webbook
rinpol	670.30	NIST Webbook
rinpol	670.50	NIST Webbook
rinpol	670.80	NIST Webbook
rinpol	665.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	674.00	NIST Webbook
rinpol	674.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	673.40	NIST Webbook
rinpol	673.20	NIST Webbook
rinpol	673.20	NIST Webbook
rinpol	674.30	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	674.85	NIST Webbook
rinpol	676.10	NIST Webbook
rinpol	677.29	NIST Webbook
rinpol	672.45	NIST Webbook
rinpol	673.81	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	669.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	671.90	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	674.00	NIST Webbook
rinpol	675.00	NIST Webbook
rinpol	669.50	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	672.00	NIST Webbook

rinpol	674.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	668.00	NIST Webbook
rinpol	668.80	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	666.60	NIST Webbook
rinpol	658.84	NIST Webbook
rinpol	659.58	NIST Webbook
rinpol	675.80	NIST Webbook
rinpol	665.00	NIST Webbook
rinpol	658.50	NIST Webbook
rinpol	661.70	NIST Webbook
rinpol	662.36	NIST Webbook
rinpol	662.41	NIST Webbook
rinpol	667.00	NIST Webbook
rinpol	663.00	NIST Webbook
rinpol	669.80	NIST Webbook
rinpol	670.10	NIST Webbook
rinpol	669.30	NIST Webbook
rinpol	664.78	NIST Webbook
rinpol	666.38	NIST Webbook
rinpol	667.28	NIST Webbook
rinpol	665.13	NIST Webbook
rinpol	666.68	NIST Webbook
rinpol	667.50	NIST Webbook
rinpol	661.00	NIST Webbook
rinpol	661.05	NIST Webbook
rinpol	665.00	NIST Webbook
rinpol	669.00	NIST Webbook
rinpol	672.00	NIST Webbook
rinpol	670.00	NIST Webbook
rinpol	671.00	NIST Webbook
rinpol	676.00	NIST Webbook
rinpol	673.00	NIST Webbook
rinpol	663.00	NIST Webbook
rinpol	672.00	NIST Webbook

rinpol	671.00		NIST Webbook
rinpol	669.00		NIST Webbook
rinpol	665.00		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	668.00		NIST Webbook
rinpol	665.00		NIST Webbook
rinpol	671.00		NIST Webbook
rinpol	675.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	671.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	665.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	668.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	670.00		NIST Webbook
rinpol	671.00		NIST Webbook
rinpol	670.00		NIST Webbook
rinpol	671.00		NIST Webbook
rinpol	665.00		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	667.00		NIST Webbook
rinpol	670.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	673.00		NIST Webbook
rinpol	680.00		NIST Webbook
rinpol	672.00		NIST Webbook
rinpol	666.60		NIST Webbook
ripol	668.00		NIST Webbook
sl	306.30	J/mol×K	NIST Webbook
sl	297.10	J/mol×K	NIST Webbook
tb	362.93	K	KDB
tb	363.15 ± 0.50	K	NIST Webbook
tb	362.85 ± 0.50	K	NIST Webbook
tb	362.85 ± 0.50	K	NIST Webbook
tb	364.80 ± 0.50	K	NIST Webbook
tb	362.95 ± 0.20	K	NIST Webbook
tb	362.95 ± 0.70	K	NIST Webbook
tb	363.05 ± 0.30	K	NIST Webbook
tb	362.95 ± 0.30	K	NIST Webbook
tb	362.60 ± 1.00	K	NIST Webbook
tb	362.95 ± 0.50	K	NIST Webbook

tb	362.75 ± 0.40	K	NIST Webbook
tb	362.93 ± 0.20	K	NIST Webbook
tb	362.95 ± 0.50	K	NIST Webbook
tb	363.05 ± 0.30	K	NIST Webbook
tb	363.00 ± 0.30	K	NIST Webbook
tb	362.94 ± 0.05	K	NIST Webbook
tb	363.15 ± 0.50	K	NIST Webbook
tb	363.31 ± 0.30	K	NIST Webbook
tb	362.99 ± 0.30	K	NIST Webbook
tb	362.93 ± 0.05	K	NIST Webbook
tb	362.85 ± 0.40	K	NIST Webbook
tb	362.97 ± 0.30	K	NIST Webbook
tb	363.00 ± 2.00	K	NIST Webbook
tb	362.35 ± 0.50	K	NIST Webbook
tb	363.00	K	NIST Webbook
tb	362.93 ± 0.02	K	NIST Webbook
tb	362.95 ± 0.30	K	NIST Webbook
tb	363.05 ± 0.30	K	NIST Webbook
tb	363.00 ± 0.30	K	NIST Webbook
tb	362.95 ± 0.50	K	NIST Webbook
tb	362.77 ± 0.30	K	NIST Webbook
tb	362.95 ± 0.30	K	NIST Webbook
tb	362.65 ± 2.00	K	NIST Webbook
tb	362.93 ± 0.20	K	NIST Webbook
tb	362.40 ± 0.70	K	NIST Webbook
tb	363.80 ± 0.50	K	NIST Webbook
tb	362.99 ± 0.30	K	NIST Webbook
tb	362.85 ± 0.60	K	NIST Webbook
tb	362.65 ± 0.50	K	NIST Webbook
tc	537.00 ± 1.00	K	NIST Webbook
tc	537.75 ± 0.50	K	NIST Webbook
tc	537.30 ± 0.50	K	NIST Webbook
tc	537.30	K	KDB
tc	537.29 ± 0.40	K	NIST Webbook
tf	149.36 ± 0.05	K	NIST Webbook
tf	139.85 ± 1.00	K	NIST Webbook
vc	0.393	m3/kmol	KDB
vc	0.393	m3/kmol	NIST Webbook
zc	0.2559950		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.84	J/mol×K	358.68	Joback Method
cpg	218.48	J/mol×K	415.82	Joback Method
cpg	230.12	J/mol×K	444.39	Joback Method
cpg	206.39	J/mol×K	387.25	Joback Method
cpg	241.33	J/mol×K	472.96	Joback Method
cpg	252.10	J/mol×K	501.53	Joback Method
cpg	262.46	J/mol×K	530.10	Joback Method
cpl	215.90	J/mol×K	291.50	NIST Webbook
cpl	218.30	J/mol×K	298.15	NIST Webbook
dvisc	0.0002290	Pa×s	358.68	Joback Method
dvisc	0.0004843	Pa×s	285.34	Joback Method
dvisc	0.0003191	Pa×s	322.01	Joback Method
dvisc	0.0017200	Pa×s	211.99	Joback Method
dvisc	0.0048239	Pa×s	175.32	Joback Method
dvisc	0.0233449	Pa×s	138.65	Joback Method
dvisc	0.0008313	Pa×s	248.66	Joback Method
hvapt	33.00	kJ/mol	340.00	NIST Webbook
hvapt	34.50	kJ/mol	325.50	NIST Webbook
hvapt	30.39	kJ/mol	363.10	KDB
hvapt	32.20 ± 0.10	kJ/mol	333.00	NIST Webbook
hvapt	31.10 ± 0.10	kJ/mol	353.00	NIST Webbook
hvapt	34.40	kJ/mol	327.50	NIST Webbook
hvapt	35.90	kJ/mol	247.00	NIST Webbook
hvapt	33.40 ± 0.10	kJ/mol	313.00	NIST Webbook
rfi	1.38945		298.15	KDB
rhoI	695.00	kg/m3	293.00	KDB
srf	0.02	N/m	298.20	KDB
tcondI	0.09	W/m×K	343.59	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondI	0.10	W/m×K	331.96	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)

tcondl	0.10	W/m×K	321.85	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: CnH2n+2 (n = 6 to 8)
tcondl	0.10	W/m×K	321.59	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: CnH2n+2 (n = 6 to 8)
tcondl	0.10	W/m×K	332.21	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: CnH2n+2 (n = 6 to 8)
tcondl	0.10	W/m×K	321.30	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: CnH2n+2 (n = 6 to 8)
tcondl	0.10	W/m×K	311.93	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: CnH2n+2 (n = 6 to 8)
tcondl	0.10	W/m×K	311.66	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: CnH2n+2 (n = 6 to 8)
tcondl	0.10	W/m×K	311.34	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: CnH2n+2 (n = 6 to 8)

tcondl	0.11	W/m×K	296.65	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.11	W/m×K	296.36	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.10	W/m×K	332.21	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.11	W/m×K	296.31	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.11	W/m×K	285.27	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.11	W/m×K	285.02	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.11	W/m×K	284.74	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)

tcondl	0.11	W/m×K	270.12	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.11	W/m×K	269.87	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.11	W/m×K	269.57	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.12	W/m×K	256.95	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.12	W/m×K	256.70	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.09	W/m×K	343.12	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
tcondl	0.09	W/m×K	343.36	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)

tcondl	0.12	W/m×K	256.30	Thermal Conductivity and Thermal Diffusivity of Sixteen Isomers of Alkanes: C _n H _{2n+2} (n = 6 to 8)
--------	------	-------	--------	---

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.42400e+01
Coeff. B	-3.13195e+03
Coeff. C	-3.74200e+01
Temperature range (K), min.	261.89
Temperature range (K), max.	388.20

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	7.08329e+01
Coeff. B	-6.34023e+03
Coeff. C	-8.40724e+00
Coeff. D	6.17660e-06
Temperature range (K), min.	160.00
Temperature range (K), max.	537.35

Datasets

Speed of sound, m/s

Pressure, kPa - Liquid	Temperature, K - Liquid	Speed of sound, m/s - Liquid
100.00	293.15	1149.5
100.00	303.15	1103.2

100.00	313.15	1061.2
100.00	323.15	1017.4
100.00	333.15	973.7
100.00	343.15	931.0
100.00	353.15	889.5
100.00	363.15	849.4
100.00	373.15	808.9
10000.00	293.15	1220.2
10000.00	303.15	1178.6
10000.00	313.15	1138.0
10000.00	323.15	1099.7
10000.00	333.15	1061.7
10000.00	343.15	1022.5
10000.00	353.15	986.1
10000.00	363.15	950.4
10000.00	373.15	914.8
20000.00	293.15	1284.8
20000.00	303.15	1245.9
20000.00	313.15	1207.8
20000.00	323.15	1171.8
20000.00	333.15	1136.5
20000.00	343.15	1101.8
20000.00	353.15	1067.4
20000.00	363.15	1035.4
20000.00	373.15	1003.1
30000.00	293.15	1342.3
30000.00	303.15	1306.5
30000.00	313.15	1270.7
30000.00	323.15	1236.2
30000.00	333.15	1203.1
30000.00	343.15	1170.5
30000.00	353.15	1138.8
30000.00	363.15	1108.4
30000.00	373.15	1079.0
40000.00	293.15	1396.2
40000.00	303.15	1361.5
40000.00	313.15	1327.2
40000.00	323.15	1294.8
40000.00	333.15	1263.1
40000.00	343.15	1232.0
40000.00	353.15	1201.8
40000.00	363.15	1173.6
40000.00	373.15	1145.4
50000.00	293.15	1445.3

50000.00	303.15	1411.9
50000.00	313.15	1379.5
50000.00	323.15	1348.2
50000.00	333.15	1317.7
50000.00	343.15	1287.5
50000.00	353.15	1259.9
50000.00	363.15	1232.3
50000.00	373.15	1205.1
60000.00	293.15	1491.9
60000.00	303.15	1458.5
60000.00	313.15	1428.2
60000.00	323.15	1397.8
60000.00	333.15	1368.8
60000.00	343.15	1339.8
60000.00	353.15	1312.3
60000.00	363.15	1286.2
60000.00	373.15	1260.3
70000.00	293.15	1535.2
70000.00	303.15	1503.4
70000.00	313.15	1473.4
70000.00	323.15	1444.3
70000.00	333.15	1416.0
70000.00	343.15	1388.3
70000.00	353.15	1361.7
70000.00	363.15	1336.7
70000.00	373.15	1311.6
80000.00	293.15	1576.5
80000.00	303.15	1545.5
80000.00	313.15	1516.6
80000.00	323.15	1488.2
80000.00	333.15	1460.6
80000.00	343.15	1433.1
80000.00	353.15	1407.9
80000.00	363.15	1383.4
80000.00	373.15	1358.8
90000.00	293.15	1616.1
90000.00	303.15	1585.9
90000.00	313.15	1557.2
90000.00	323.15	1529.5
90000.00	333.15	1502.6
90000.00	343.15	1476.4
90000.00	353.15	1451.0
90000.00	363.15	1427.8
90000.00	373.15	1403.8

100000.00	293.15	1653.0
100000.00	303.15	1623.9
100000.00	313.15	1595.8
100000.00	323.15	1569.1
100000.00	333.15	1542.8
100000.00	343.15	1516.8
100000.00	353.15	1492.5
100000.00	363.15	1469.5
100000.00	373.15	1446.4
110000.00	293.15	1688.6
110000.00	303.15	1660.0
110000.00	313.15	1632.9
110000.00	323.15	1606.4
110000.00	333.15	1580.5
110000.00	343.15	1555.6
110000.00	353.15	1531.5
110000.00	363.15	1508.7
110000.00	373.15	1486.3
120000.00	293.15	1723.2
120000.00	303.15	1694.7
120000.00	313.15	1668.4
120000.00	323.15	1642.2
120000.00	333.15	1617.1
120000.00	343.15	1592.3
120000.00	353.15	1569.2
120000.00	363.15	1546.8
120000.00	373.15	1524.6
130000.00	293.15	1756.3
130000.00	303.15	1728.8
130000.00	313.15	1702.5
130000.00	323.15	1676.9
130000.00	333.15	1652.2
130000.00	343.15	1627.9
130000.00	353.15	1604.7
130000.00	363.15	1583.0
130000.00	373.15	1561.1
140000.00	293.15	1788.0
140000.00	303.15	1760.4
140000.00	313.15	1735.5
140000.00	323.15	1713.3
140000.00	333.15	1685.7
140000.00	343.15	1661.8
140000.00	353.15	1639.3
140000.00	363.15	1617.8

140000.00	373.15	1596.4
150000.00	293.15	1818.6
150000.00	303.15	1792.3
150000.00	313.15	1766.7
150000.00	323.15	1742.2
150000.00	333.15	1718.3
150000.00	343.15	1694.8
150000.00	353.15	1672.8
150000.00	363.15	1650.9
150000.00	373.15	1630.2

Reference

<https://www.doi.org/10.1021/je0502849>

Viscosity, Pa*s

Temperature, K - Liquid	Pressure, kPa - Liquid	Viscosity, Pa*s - Liquid
303.15	100.00	0.0003560
303.15	1000.00	0.0003600
303.15	5000.00	0.0003770
303.15	10000.00	0.0003980
303.15	15000.00	0.0004190
303.15	20000.00	0.0004410
303.15	25000.00	0.0004620
303.15	30000.00	0.0004850
303.15	35000.00	0.0005070
303.15	40000.00	0.0005300
303.15	45000.00	0.0005530
303.15	50000.00	0.0005760
303.15	55000.00	0.0006000
303.15	60000.00	0.0006240
313.15	100.00	0.0003240
313.15	1000.00	0.0003280
313.15	5000.00	0.0003430
313.15	10000.00	0.0003610
313.15	15000.00	0.0003800
313.15	20000.00	0.0003990
313.15	25000.00	0.0004180
313.15	30000.00	0.0004380
313.15	35000.00	0.0004580
313.15	40000.00	0.0004790
313.15	45000.00	0.0005000

313.15	50000.00	0.0005220
313.15	55000.00	0.0005440
313.15	60000.00	0.0005660
323.15	100.00	0.0002900
323.15	1000.00	0.0002940
323.15	5000.00	0.0003080
323.15	10000.00	0.0003260
323.15	15000.00	0.0003440
323.15	20000.00	0.0003620
323.15	25000.00	0.0003810
323.15	30000.00	0.0003990
323.15	35000.00	0.0004180
323.15	40000.00	0.0004370
323.15	45000.00	0.0004570
323.15	50000.00	0.0004760
323.15	55000.00	0.0004960
323.15	60000.00	0.0005170
333.15	100.00	0.0002620
333.15	1000.00	0.0002660
333.15	5000.00	0.0002800
333.15	10000.00	0.0002980
333.15	15000.00	0.0003160
333.15	20000.00	0.0003340
333.15	25000.00	0.0003520
333.15	30000.00	0.0003690
333.15	35000.00	0.0003870
333.15	40000.00	0.0004040
333.15	45000.00	0.0004220
333.15	50000.00	0.0004390
333.15	55000.00	0.0004570
333.15	60000.00	0.0004740
343.15	100.00	0.0002440
343.15	1000.00	0.0002470
343.15	5000.00	0.0002600
343.15	10000.00	0.0002760
343.15	15000.00	0.0002920
343.15	20000.00	0.0003090
343.15	25000.00	0.0003250
343.15	30000.00	0.0003420
343.15	35000.00	0.0003590
343.15	40000.00	0.0003760
343.15	45000.00	0.0003930
343.15	50000.00	0.0004100
343.15	55000.00	0.0004280

ap:	Aniline Point
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hcg:	Heat of Combustion, Gross form
hcn:	Heat of Combustion, Net Form
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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhoc:	Critical density
rhof:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sl:	Liquid phase molar entropy at standard conditions
speedsl:	Speed of sound in fluid
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tcondl:	Liquid thermal conductivity
tf:	Normal melting (fusion) point
vc:	Critical Volume
zc:	Critical Compressibility
zra:	Rackett Parameter

Latest version available from:

<https://www.cheméo.com/cid/62-397-3/Pentane-2-3-dimethyl.pdf>

Generated by Cheméo on 2025-12-23 00:48:51.453694698 +0000 UTC m=+6199128.983735368.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.