

Cyclopentane, methyl-

Other names:	Methylcyclopentane UN 2298
Inchi:	InChI=1S/C6H12/c1-6-4-2-3-5-6/h6H,2-5H2,1H3
InchiKey:	GDOPTJXRTPNYNR-UHFFFAOYSA-N
Formula:	C6H12
SMILES:	CC1CCCC1
Mol. weight [g/mol]:	84.16
CAS:	96-37-7

Physical Properties

Property code	Value	Unit	Source
af	0.2310		KDB
aigt	602.04	K	KDB
ap	306.150	K	KDB
chl	-3938.30 ± 0.59	kJ/mol	NIST Webbook
chl	-3937.70 ± 0.75	kJ/mol	NIST Webbook
chl	-3936.20 ± 1.70	kJ/mol	NIST Webbook
chl	-3956.00	kJ/mol	NIST Webbook
dm	0.00	debye	KDB
fll	1.10	% in Air	KDB
flu	8.70	% in Air	KDB
fpo	255.37	K	KDB
gf	35.80	kJ/mol	KDB
gyrad	3.1670		KDB
hcg	3938.32	kJ/mol	KDB
hcn	3674.263	kJ/mol	KDB
hf	-106.80	kJ/mol	KDB
hf	-108.10	kJ/mol	NIST Webbook
hf	-106.00	kJ/mol	NIST Webbook
hf	-106.70 ± 0.84	kJ/mol	NIST Webbook
hfl	-138.40 ± 0.84	kJ/mol	NIST Webbook
hfl	-137.70 ± 0.71	kJ/mol	NIST Webbook
hfl	-139.80 ± 1.70	kJ/mol	NIST Webbook
hfus	5.23	kJ/mol	Joback Method
hvap	29.21	kJ/mol	Joback Method
ie	9.70 ± 0.10	eV	NIST Webbook
ie	9.85	eV	NIST Webbook

ie	10.34 ± 0.04	eV	NIST Webbook
ie	9.62 ± 0.05	eV	NIST Webbook
ie	10.42	eV	NIST Webbook
ie	10.45	eV	NIST Webbook
log10ws	-3.30		Estimated Solubility Method
log10ws	-3.30		Aqueous Solubility Prediction Method
logp	2.196		Crippen Method
mcvol	84.540	ml/mol	McGowan Method
nfpaf	%!d(float64=3)		KDB
nfpah	%!d(float64=2)		KDB
pc	3785.91 ± 5.06	kPa	NIST Webbook
pc	3784.00 ± 40.53	kPa	NIST Webbook
pc	3790.00 ± 40.00	kPa	NIST Webbook
pc	3790.00	kPa	KDB
rhoc	264.26 ± 1.68	kg/m3	NIST Webbook
rhoc	264.01 ± 4.21	kg/m3	NIST Webbook
rhoc	264.26 ± 3.37	kg/m3	NIST Webbook
rinpol	630.80		NIST Webbook
rinpol	631.00		NIST Webbook
rinpol	658.00		NIST Webbook
rinpol	654.00		NIST Webbook
rinpol	654.00		NIST Webbook
rinpol	654.00		NIST Webbook
rinpol	626.60		NIST Webbook
rinpol	628.40		NIST Webbook
rinpol	630.10		NIST Webbook
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rinpol	635.00	NIST Webbook

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rinpol	625.40		NIST Webbook
rinpol	648.00		NIST Webbook
rinpol	634.00		NIST Webbook
rinpol	620.72		NIST Webbook
rinpol	628.20		NIST Webbook
ripol	675.00		NIST Webbook
sl	247.78	J/molxK	NIST Webbook
sl	247.70	J/molxK	NIST Webbook
tb	344.90	K	KDB
tb	344.96	K	Isobaric Vapor-Liquid Equilibrium Data for Two Binary Systems n-Hexane + 1,2-Dimethoxyethane and Methylcyclopentane + 1,2-Dimethoxyethane at 101.3 kPa
tc	532.70 ± 0.20	K	NIST Webbook
tc	532.70	K	KDB
tc	532.73 ± 0.30	K	NIST Webbook
tc	532.70 ± 0.20	K	NIST Webbook
tc	532.70	K	NIST Webbook
tc	532.76 ± 0.05	K	NIST Webbook
tf	130.65	K	Aqueous Solubility Prediction Method
tf	130.60	K	KDB
vc	0.318	m3/kmol	NIST Webbook
vc	0.318	m3/kmol	KDB
zc	0.2721120		KDB
zra	0.27		KDB

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	165.21 ± 0.33	J/mol×K	436.25	NIST Webbook
cpg	136.21 ± 0.27	J/mol×K	362.55	NIST Webbook
cpg	124.24 ± 0.25	J/mol×K	333.20	NIST Webbook
cpg	152.15 ± 0.30	J/mol×K	402.35	NIST Webbook
cpg	178.17 ± 0.36	J/mol×K	471.05	NIST Webbook
cpl	157.30	J/mol×K	295.70	NIST Webbook
cpl	157.66	J/mol×K	293.15	NIST Webbook
cpl	159.12	J/mol×K	299.80	NIST Webbook
cpl	158.70	J/mol×K	298.15	NIST Webbook
dvisc	0.0004500	Paxs	303.15	Physical properties of the binary systems methylcyclopentane with ketones (acetone, butanone and 2-pentanone) at T = (293.15, 298.15, and 303.15) K. New UNIFAC-VISCO interaction parameters
dvisc	0.0004760	Paxs	298.15	Physical properties of the binary systems methylcyclopentane with ketones (acetone, butanone and 2-pentanone) at T = (293.15, 298.15, and 303.15) K. New UNIFAC-VISCO interaction parameters

dvisc	0.0005040	Paxs	293.15	Physical properties of the binary systems methylcyclopentane with ketones (acetone, butanone and 2-pentanone) at T = (293.15, 298.15, and 303.15) K. New UNIFAC-VISCO interaction parameters
dvisc	0.0005040	Paxs	293.15	Viscosity, density, and speed of sound of methylcyclopentane with primary and secondary alcohols at T = (293.15, 298.15, and 303.15) K
dvisc	0.0004760	Paxs	298.15	Viscosity, density, and speed of sound of methylcyclopentane with primary and secondary alcohols at T = (293.15, 298.15, and 303.15) K
dvisc	0.0004500	Paxs	303.15	Viscosity, density, and speed of sound of methylcyclopentane with primary and secondary alcohols at T = (293.15, 298.15, and 303.15) K
hfust	6.93	kJ/mol	130.70	NIST Webbook
hfust	6.93	kJ/mol	130.70	NIST Webbook
hfust	6.88	kJ/mol	130.10	NIST Webbook
hfust	6.93	kJ/mol	130.73	NIST Webbook
hvapt	31.30 ± 0.10	kJ/mol	304.00	NIST Webbook
hvapt	31.40	kJ/mol	322.50	NIST Webbook
hvapt	31.90	kJ/mol	317.00	NIST Webbook
hvapt	30.20 ± 0.10	kJ/mol	326.00	NIST Webbook
hvapt	31.33 ± 0.02	kJ/mol	304.00	NIST Webbook
hvapt	29.08	kJ/mol	345.00	NIST Webbook
hvapt	29.10 ± 0.10	kJ/mol	345.00	NIST Webbook
hvapt	29.08	kJ/mol	345.00	KDB

pvap	101.30	kPa	344.96	Isobaric Vapor-Liquid Equilibrium Data for Two Binary Systems n-Hexane + 1,2-Dimethoxyethane and Methylcyclopentane + 1,2-Dimethoxyethane at 101.3 kPa
rfi	1.40700		298.15	KDB
rfi	1.40670		298.15	Phase equilibria of binary systems of 3-methylthiophene with four different hydrocarbons
rhoI	754.00	kg/m ³	289.00	KDB
sfust	53.00	J/mol×K	130.73	NIST Webbook
sfust	52.90	J/mol×K	130.10	NIST Webbook
srf	0.02	N/m	293.20	KDB
tcondI	0.12	W/m×K	295.15	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondI	0.11	W/m×K	312.82	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondI	0.11	W/m×K	312.57	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.12	W/m×K	295.32	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.11	W/m×K	312.99	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	294.90	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	277.41	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.12	W/m×K	277.24	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

tcondl	0.12	W/m×K	277.00	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	259.11	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	258.96	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons
tcondl	0.13	W/m×K	258.71	Thermal Conductivity and Thermal Diffusivity of Twenty-Nine Liquids: Alkenes, Cyclic (Alkanes, Alkenes, Alkadienes, Aromatics), and Deuterated Hydrocarbons

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.42458e+01
Coeff. B	-3.00275e+03

Coeff. C	-3.31070e+01
Temperature range (K), min.	248.23
Temperature range (K), max.	369.20

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	7.27581e+01
Coeff. B	-6.08643e+03
Coeff. C	-8.79214e+00
Coeff. D	7.40207e-06
Temperature range (K), min.	130.73
Temperature range (K), max.	532.79

Sources

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- Physical properties of the binary systems methylcyclopentane with ketone, acetone, acetonitrile and 2-propanone: JCTC 2009, 11, 298-305, and 2010, 12, 298-305. <https://www.doi.org/10.1016/j.fluid.2009.11.004>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>
- Physical properties of the binary systems methylcyclopentane with ketone, acetone, acetonitrile and 2-propanone: JCTC 2005, 08, 002 <https://www.doi.org/10.1016/j.jct.2005.08.002>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1016/j.jct.2015.02.023>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1021/je020208v>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.chemic.org/files/research/kdb/mol/mol469.mol>
- Liquid liquid equilibria for the binary systems of sulfolane with branched cycloalkanes (see Thermophysical Properties Databank): <https://www.doi.org/10.1016/j.fluid.2006.05.008>
- Isobaric Vapor-Liquid Equilibrium Data for Two Binary Systems n-Hexane + Cyclohexane: <https://www.chemic.org/research/kdb/hcprop/showprop.php?cmpid=469>
- Infinite Dilution Activity Coefficients of Organic Compounds in Binary Systems of Organic Compounds with Four Different Hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1021/acs.jced.7b00802>
- Thermal Diffusivity and Thermal Conductivity of Twenty-Nine Liquids: Alkanes, Cyclic Alkanes, Alkenes, Alkynes, and Alkynes: <https://www.doi.org/10.1021/je500050p>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1021/je034162x>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1021/je900838a>
- Study of interaction between organic compounds and mono or dicationic ionic liquids for separation of organic compounds in ternary systems: <http://link.springer.com/article/10.1007/BF02311772>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1016/j.fluid.2014.11.020>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1021/je201129y>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1021/je800754w>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1021/je9003178>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1016/j.jct.2010.04.011>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1021/je300692s>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <http://pubs.acs.org/doi/abs/10.1021/ci990307i>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: <https://www.doi.org/10.1016/j.jct.2014.06.006>
- Activity coefficients at infinite dilution of organic compounds in binary systems of organic compounds with four different hydrocarbons: Solubility Prediction Method: Chromatography: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
- Activity Coefficients at Infinite Dilution of Organic Compounds in 1-Butyl-3-methylimidazolium Tetrafluoroborate Using Inverse Gas Chromatography: <https://www.doi.org/10.1021/je800658v>

Viscosity, density, and speed of sound of methylcyclopentane with primary KDB Vapor Pressure Data T = (293.15, 298.15, and 303.15) K: <https://www.doi.org/10.1016/j.jct.2005.12.010>
<https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=469>
 Activity Coefficients at Infinite Dilution of Organic Compounds in Four New Imidazolium-Based Ionic Liquids: <https://www.doi.org/10.1021/je200195q>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C96377&Units=SI>
 Phase equilibria on five binary systems containing 1-butanethiol and Meowynthiolene: <https://www.doi.org/10.1016/j.fluid.2010.02.030>
 Measurement of Activity Coefficients at Infinite Dilution of Hydrocarbons in Ionic Liquids: <https://www.doi.org/10.1021/acs.jced.9b00170>
 Activity Coefficients at Infinite Dilution for Organic Solutes Dissolved in One of the Ionic Liquids from the Class of 1-(4-oxo-1,2,3,4-dihydro-2H-pyridin-2-yl)propan-1-one: <https://www.doi.org/10.1021/je4001894>
 The Yaws Handbook of Vapor Pressure: <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>
 Joback Method: Short Linear Alkyl Side Chains of Three to Five Carbons: https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
aigt:	Autoignition Temperature
ap:	Aniline Point
chl:	Standard liquid enthalpy of combustion
cp_g:	Ideal gas heat capacity
cp_l:	Liquid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
fl:	Lower Flammability Limit
flu:	Upper Flammability Limit
fpo:	Flash Point (Open Cup Method)
gf:	Standard Gibbs free energy of formation
gyrad:	Radius of Gyration
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
hfust:	Enthalpy of fusion at a given temperature
h_{vap}:	Enthalpy of vaporization at standard conditions
h_{vapt}:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health 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
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
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

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