

Cyclohexene, 4-(1-methylethyl)

Other names:	4-isopropylcyclohexene
Inchi:	InChI=1S/C9H16/c1-8(2)9-6-4-3-5-7-9/h3-4,8-9H,5-7H2,1-2H3
InchiKey:	DUFSFEODQNDOBE-UHFFFAOYSA-N
Formula:	C9H16
SMILES:	CC(C)C1CC=CCC1
Mol. weight [g/mol]:	124.22

Physical Properties

Property code	Value	Unit	Source
gf	76.87	kJ/mol	Joback Method
hf	-122.27	kJ/mol	Joback Method
hfus	8.60	kJ/mol	Joback Method
hvap	35.96	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.999		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
rinpol	933.90		NIST Webbook
rinpol	929.50		NIST Webbook
rinpol	929.50		NIST Webbook
ripol	1066.00		NIST Webbook
tb	423.59	K	Joback Method
tc	629.46	K	Joback Method
tf	184.33	K	Joback Method
vc	0.453	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	241.39	J/mol×K	423.59	Joback Method
cpg	321.90	J/mol×K	595.15	Joback Method
cpg	307.52	J/mol×K	560.84	Joback Method
cpg	292.30	J/mol×K	526.53	Joback Method
cpg	276.23	J/mol×K	492.21	Joback Method

cpg	259.26	J/mol×K	457.90	Joback Method
cpg	335.48	J/mol×K	629.46	Joback Method
dvisc	0.0002516	Pa×s	423.59	Joback Method
dvisc	0.0003397	Pa×s	383.71	Joback Method
dvisc	0.0004918	Pa×s	343.84	Joback Method
dvisc	0.0007846	Pa×s	303.96	Joback Method
dvisc	0.0014413	Pa×s	264.08	Joback Method
dvisc	0.0032873	Pa×s	224.21	Joback Method
dvisc	0.0107110	Pa×s	184.33	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R15874&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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