

(cis-1,2-Methylenehexyl)-cyclopropane

Inchi:	InChI=1S/C10H18/c1-2-3-4-9-7-10(9)8-5-6-8/h8-10H,2-7H2,1H3/t9-,10-/m0/s1
InchiKey:	DBRZLJLLVUQXKI-UWVGGGRQHSA-N
Formula:	C10H18
SMILES:	CCCCC1CC1C1CC1
Mol. weight [g/mol]:	138.25

Physical Properties

Property code	Value	Unit	Source
gf	147.11	kJ/mol	Joback Method
hf	-124.47	kJ/mol	Joback Method
hfus	19.00	kJ/mol	Joback Method
hvap	37.37	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	3.223		Crippen Method
mcvol	130.040	ml/mol	McGowan Method
pc	2627.15	kPa	Joback Method
rinpol	998.50		NIST Webbook
rinpol	1002.10		NIST Webbook
tb	437.01	K	Joback Method
tc	626.35	K	Joback Method
tf	234.10	K	Joback Method
vc	0.508	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.74	J/mol×K	437.01	Joback Method
cpg	305.06	J/mol×K	468.57	Joback Method
cpg	322.35	J/mol×K	500.12	Joback Method
cpg	338.68	J/mol×K	531.68	Joback Method
cpg	354.08	J/mol×K	563.23	Joback Method
cpg	368.62	J/mol×K	594.79	Joback Method
cpg	382.35	J/mol×K	626.35	Joback Method
dvisc	0.0006447	Paxs	234.10	Joback Method

dvisc	0.0006543	Paxs	267.92	Joback Method
dvisc	0.0006618	Paxs	301.74	Joback Method
dvisc	0.0006679	Paxs	335.56	Joback Method
dvisc	0.0006729	Paxs	369.37	Joback Method
dvisc	0.0006771	Paxs	403.19	Joback Method
dvisc	0.0006807	Paxs	437.01	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137772&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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