

Cyclopropane, 1-methyl-2-(3-methylpentyl)-

Inchi:	InChI=1S/C10H20/c1-4-8(2)5-6-10-7-9(10)3/h8-10H,4-7H2,1-3H3
InchiKey:	YAIRHJNLKNFVMT-UHFFFAOYSA-N
Formula:	C10H20
SMILES:	CCC(C)CCC1CC1C
Mol. weight [g/mol]:	140.27
CAS:	62238-07-7

Physical Properties

Property code	Value	Unit	Source
gf	83.92	kJ/mol	Joback Method
hf	-202.55	kJ/mol	Joback Method
hfus	17.34	kJ/mol	Joback Method
hvap	37.07	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	3.469		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2327.03	kPa	Joback Method
rinpol	934.00		NIST Webbook
tb	429.83	K	Joback Method
tc	608.72	K	Joback Method
tf	201.16	K	Joback Method
vc	0.545	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.84	J/molxK	429.83	Joback Method
cpg	318.07	J/molxK	459.65	Joback Method
cpg	334.51	J/molxK	489.46	Joback Method
cpg	350.20	J/molxK	519.28	Joback Method
cpg	365.16	J/molxK	549.09	Joback Method
cpg	379.41	J/molxK	578.91	Joback Method
cpg	393.00	J/molxK	608.72	Joback Method
dvisc	0.0014960	Paxs	201.16	Joback Method

dvisc	0.0009861	Paxs	239.27	Joback Method
dvisc	0.0007289	Paxs	277.38	Joback Method
dvisc	0.0005796	Paxs	315.50	Joback Method
dvisc	0.0004842	Paxs	353.61	Joback Method
dvisc	0.0004189	Paxs	391.72	Joback Method
dvisc	0.0003719	Paxs	429.83	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62238077&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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