

1-methyl-cis-2-pentyl-trans-3-methyl-cyclopropan

Inchi:	InChI=1S/C10H20/c1-4-5-6-7-10-8(2)9(10)3/h8-10H,4-7H2,1-3H3/t8-,9-/m1/s1
InchiKey:	IPMTXCVSSNHQAF-RKDXNWHRSA-N
Formula:	C10H20
SMILES:	CCCCC1C(C)C1C
Mol. weight [g/mol]:	140.27

Physical Properties

Property code	Value	Unit	Source
gf	78.65	kJ/mol	Joback Method
hf	-217.61	kJ/mol	Joback Method
hfus	21.93	kJ/mol	Joback Method
hvap	37.15	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	3.469		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2237.64	kPa	Joback Method
rinpola	940.21		NIST Webbook
rinpola	940.21		NIST Webbook
rinpola	939.00		NIST Webbook
rinpola	940.45		NIST Webbook
rinpola	939.43		NIST Webbook
tb	425.60	K	Joback Method
tc	600.09	K	Joback Method
tf	211.92	K	Joback Method
vc	0.550	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.64	J/molxK	425.60	Joback Method
cpg	317.66	J/molxK	454.68	Joback Method
cpg	333.96	J/molxK	483.76	Joback Method
cpg	349.56	J/molxK	512.85	Joback Method
cpg	364.49	J/molxK	541.93	Joback Method

cpg	378.77	J/molxK	571.01	Joback Method
cpg	392.43	J/molxK	600.09	Joback Method
dvisc	0.0006608	Paxs	211.92	Joback Method
dvisc	0.0005611	Paxs	247.53	Joback Method
dvisc	0.0004965	Paxs	283.15	Joback Method
dvisc	0.0004515	Paxs	318.76	Joback Method
dvisc	0.0004185	Paxs	354.37	Joback Method
dvisc	0.0003933	Paxs	389.99	Joback Method
dvisc	0.0003735	Paxs	425.60	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137376&Units=SI

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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