1,2-dimethyl-trans-2-pentyl-cyclopropane

Inchi: InChI=1S/C10H20/c1-4-5-6-7-10(3)8-9(10)2/h9H,4-8H2,1-3H3/t9-,10-/m1/s1
InchiKey: MIUGYZWCPHQTLS-NXEZZACHSA-N
Formula: C10H20
SMILES: CCCCCC1(C)CC1C
Mol. weight [g/mol]: 140.27

Physical Properties

Property code	Value	Unit	Source
gf	80.87	kJ/mol	Joback Method
hf	-182.03	kJ/mol	Joback Method
hfus	14.56	kJ/mol	Joback Method
hvap	36.31	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.613		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2412.37	kPa	Joback Method
rinpol	938.67		NIST Webbook
rinpol	940.90		NIST Webbook
rinpol	940.90		NIST Webbook
rinpol	942.52		NIST Webbook
rinpol	937.05		NIST Webbook
tb	430.51	K	Joback Method
tc	612.89	K	Joback Method
tf	240.06	K	Joback Method
vc	0.549	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.75	J/mol×K	430.51	Joback Method
cpg	319.05	J/mol×K	460.91	Joback Method
cpg	335.32	J/mol×K	491.30	Joback Method
cpg	350.64	J/mol×K	521.70	Joback Method
cpg	365.08	J/mol×K	552.10	Joback Method

cpg	378.74	J/mol×K	582.49	Joback Method
cpg	391.68	J/mol×K	612.89	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R137029&Units=SI

Legend

cpg:	Ideal gas heat capacity
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