Cyclopropane, 1,2-dimethyl-3-pentyl-, (1«alpha»,2«alpha»,3«alpha»)-

Other names: 1-Methyl-cis-2-pentyl-cis-3-methyl-cyclopropane
1,2-Dimethyl-3-pentylcyclopropane, (1«alpha»,2«alpha»,3«alpha»)-
Inchi: InChI=1S/C10H20/c1-4-5-6-7-10-8(2)9(10)3/h8-10H,4-7H2,1-3H3
InchiKey: IPMTXCVSSNHQAF-UHFFFAOYSA-N
Formula: C10H20
SMILES: CCCCCC1C(C)C1C
Mol. weight [g/mol]: 140.27
CAS: 62238-10-2

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
rinpol	1003.60		NIST Webbook
rinpol	1006.40		NIST Webbook
rinpol	1008.70		NIST Webbook
rinpol	1001.30		NIST Webbook
tb	425.60	K	Joback Method
tc	600.09	K	Joback Method
tf	211.92	K	Joback Method
vc	0.550	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.64	J/mol×K	425.60	Joback Method
cpg	317.66	J/mol×K	454.68	Joback Method
cpg	333.96	J/mol×K	483.76	Joback Method

cpg	349.56	J/mol×K	512.85	Joback Method
cpg	364.49	J/mol×K	541.93	Joback Method
cpg	378.77	J/mol×K	571.01	Joback Method
cpg	392.43	J/mol×K	600.09	Joback Method
dvisc	0.0006608	Pa×s	211.92	Joback Method
dvisc	0.0005611	Pa×s	247.53	Joback Method
dvisc	0.0004965	Pa×s	283.15	Joback Method
dvisc	0.0004515	Pa×s	318.76	Joback Method
dvisc	0.0004185	Pa×s	354.37	Joback Method
dvisc	0.0003933	Pa×s	389.99	Joback Method
dvisc	0.0003735	Pa×s	425.60	Joback Method

Sources

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=C62238102&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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