(2-Methyl)-hexyl-cyclopropane

Inchi: InChI=1S/C10H20/c1-3-4-5-9(2)8-10-6-7-10/h9-10H,3-8H2,1-2H3
InchiKey: MLYGARBUTVGLOJ-UHFFFAOYSA-N
Formula: C10H20
SMILES: CCCCC(C)CC1CC1
Mol. weight [g/mol]: 140.27

Physical Properties

Property code	Value	Unit	Source
gf	91.63	kJ/mol	Joback Method
hf	-182.21	kJ/mol	Joback Method
hfus	16.27	kJ/mol	Joback Method
hvap	37.38	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.613		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2402.92	kPa	Joback Method
rinpol	976.25		NIST Webbook
rinpol	978.96		NIST Webbook
rinpol	972.14		NIST Webbook
rinpol	974.18		NIST Webbook
rinpol	976.25		NIST Webbook
tb	434.50	K	Joback Method
tc	613.84	K	Joback Method
tf	205.40	K	Joback Method
vc	0.546	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.01	J/mol×K	434.50	Joback Method
cpg	378.01	J/mol×K	583.95	Joback Method
cpg	364.10	J/mol×K	554.06	Joback Method
cpg	349.48	J/mol×K	524.17	Joback Method
cpg	334.12	J/mol×K	494.28	Joback Method

cpg	317.97	J/mol×K	464.39	Joback Method
cpg	391.23	J/mol×K	613.84	Joback Method
dvisc	0.0003824	Pa×s	434.50	Joback Method
dvisc	0.0004540	Pa×s	396.32	Joback Method
dvisc	0.0005591	Pa×s	358.13	Joback Method
dvisc	0.0007236	Pa×s	319.95	Joback Method
dvisc	0.0010044	Pa×s	281.77	Joback Method
dvisc	0.0015449	Pa×s	243.58	Joback Method
dvisc	0.0027890	Pa×s	205.40	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R137683&Units=SI
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

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