Cyclopropane, 1,1-dichloro-2-heptyl

Inchi: InChI=1S/C10H18Cl2/c1-2-3-4-5-6-7-9-8-10(9,11)12/h9H,2-8H2,1H3
InchiKey: WKGGLQPFYJHATD-UHFFFAOYSA-N
Formula: C10H18Cl2
SMILES: CCCCCCCC1CC1(Cl)Cl
Mol. weight [g/mol]: 209.16

Physical Properties

Property code	Value	Unit	Source
gf	57.01	kJ/mol	Joback Method
hf	-213.51	kJ/mol	Joback Method
hfus	22.96	kJ/mol	Joback Method
hvap	45.08	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.541		Crippen Method
mcvol	165.380	ml/mol	McGowan Method
pc	2246.13	kPa	Joback Method
rinpol	1307.00		NIST Webbook
ripol	1561.00		NIST Webbook
tb	505.37	K	Joback Method
tc	699.78	K	Joback Method
tf	299.90	K	Joback Method
vc	0.647	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.06	J/mol×K	505.37	Joback Method
cpg	382.45	J/mol×K	537.77	Joback Method
cpg	396.88	J/mol×K	570.17	Joback Method
cpg	410.44	J/mol×K	602.57	Joback Method
cpg	423.24	J/mol×K	634.97	Joback Method
cpg	435.37	J/mol×K	667.37	Joback Method
cpg	446.95	J/mol×K	699.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R122082&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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