Cyclopropane, 1,1-dichloro-2,3-dibutyl, trans

Inchi: InChI=1S/C11H20Cl2/c1-3-5-7-9-10(8-6-4-2)11(9,12)13/h9-10H,3-8H2,1-2H3/t9-,10-/m1/
InchiKey: VQPUIJPDNSMNGG-NXEZZACHSA-N
Formula: C11H20Cl2
SMILES: CCCCC1C(CCCC)C1(Cl)Cl
Mol. weight [g/mol]: 223.18

Physical Properties

Property code	Value	Unit	Source
gf	57.72	kJ/mol	Joback Method
hf	-254.49	kJ/mol	Joback Method
hfus	26.62	kJ/mol	Joback Method
hvap	46.99	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	4.787		Crippen Method
mcvol	179.470	ml/mol	McGowan Method
pc	1994.77	kPa	Joback Method
rinpol	1336.00		NIST Webbook
ripol	1532.00		NIST Webbook
tb	523.58	K	Joback Method
tc	715.32	K	Joback Method
tf	306.93	K	Joback Method
vc	0.703	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	414.68	J/mol×K	523.58	Joback Method
cpg	431.08	J/mol×K	555.54	Joback Method
cpg	446.55	J/mol×K	587.49	Joback Method
cpg	461.18	J/mol×K	619.45	Joback Method
cpg	475.05	J/mol×K	651.41	Joback Method
cpg	488.27	J/mol×K	683.36	Joback Method
cpg	500.92	J/mol×K	715.32	Joback Method

Sources

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=R121990&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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