(7,8-Methylene)octyl-cyclopropane

Inchi: InChI=1S/C12H22/c1(3-5-11-7-8-11)2-4-6-12-9-10-12/h11-12H,1-10H2
InchiKey: AKQNFNHJHSBCOS-UHFFFAOYSA-N
Formula: C12H22
SMILES: C(CCCC1CC1)CCC1CC1
Mol. weight [g/mol]: 166.30

Physical Properties

Property code	Value	Unit	Source
gf	171.66	kJ/mol	Joback Method
hf	-145.41	kJ/mol	Joback Method
hfus	23.11	kJ/mol	Joback Method
hvap	42.13	kJ/mol	Joback Method
log10ws	-4.15		Crippen Method
logp	4.147		Crippen Method
mcvol	158.220	ml/mol	McGowan Method
pc	2246.13	kPa	Joback Method
tb	487.44	K	Joback Method
tc	673.29	K	Joback Method
tf	260.88	K	Joback Method
vc	0.622	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.29	J/mol×K	487.44	Joback Method
cpg	399.52	J/mol×K	518.42	Joback Method
cpg	417.67	J/mol×K	549.39	Joback Method
cpg	434.82	J/mol×K	580.37	Joback Method
cpg	451.02	J/mol×K	611.34	Joback Method
cpg	466.33	J/mol×K	642.32	Joback Method
cpg	480.81	J/mol×K	673.29	Joback Method
dvisc	0.0016523	Pa×s	260.88	Joback Method
dvisc	0.0013554	Pa×s	298.64	Joback Method
dvisc	0.0011624	Pa×s	336.40	Joback Method

dvisc	0.0010282	Pa×s	374.16	Joback Method
dvisc	0.0009303	Pa×s	411.92	Joback Method
dvisc	0.0008559	Pa×s	449.68	Joback Method
dvisc	0.0007977	Pa×s	487.44	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=R137732&Units=SI

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