Cyclopropane, 1,1'-(1,2-ethanediyl)bis-

Other names: Cyclopropane, 1,1'-(1,2-ethanediyl)bis-
(2-Cyclopropylethyl)cyclopropane
(3,4-Methylene)butyl-cyclopropane
Inchi: InChI=1S/C8H14/c1-2-7(1)5-6-8-3-4-8/h7-8H,1-6H2
InchiKey: KMEBZBOYYXYOIU-UHFFFAOYSA-N
Formula: C8H14
SMILES: C1CC1CCC1CC1
Mol. weight [g/mol]: 110.20

Physical Properties

Property code	Value	Unit	Source
af	0.3820		Cheméo Relay (1.0)
gf	137.98	kJ/mol	Joback Method
hf	-72.21	kJ/mol	Cheméo Relay (1.0)
hfus	12.75	kJ/mol	Joback Method
hvap	43.83	kJ/mol	Cheméo Relay (1.0)
ie	9.17	eV	Cheméo Relay (1.0)
log10ws	-5.03		Cheméo Relay (1.0)
logp	2.587		Crippen Method
mcvol	101.860	ml/mol	McGowan Method
pc	3356.75	kPa	Joback Method
rinpol	826.80		NIST Webbook
rinpol	826.80		NIST Webbook
tb	429.84	K	Cheméo Relay (1.0)
tc	628.02	K	Cheméo Relay (1.0)
tf	252.51	K	Cheméo Relay (1.0)
vc	0.420	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.04	J/mol×K	395.92	Joback Method
cpg	217.38	J/mol×K	428.10	Joback Method
cpg	232.71	J/mol×K	460.28	Joback Method

cpg	247.07	J/mol×K	492.47	Joback Method
cpg	260.54	J/mol×K	524.65	Joback Method
cpg	273.17	J/mol×K	556.83	Joback Method
cpg	285.01	J/mol×K	589.01	Joback Method
dvisc	0.0005877	Pa×s	215.80	Joback Method
dvisc	0.0005772	Pa×s	245.82	Joback Method
dvisc	0.0005690	Pa×s	275.84	Joback Method
dvisc	0.0005626	Pa×s	305.86	Joback Method
dvisc	0.0005574	Pa×s	335.88	Joback Method
dvisc	0.0005530	Pa×s	365.90	Joback Method
dvisc	0.0005493	Pa×s	395.92	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C37520119&Units=SI

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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