Ethane, 1,2-dicyclopropyl-

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
CAS: 37520-11-9

Physical Properties

Property code	Value	Unit	Source
gf	137.98	kJ/mol	Joback Method
hf	-62.85	kJ/mol	Joback Method
hfus	12.75	kJ/mol	Joback Method
hvap	33.23	kJ/mol	Joback Method
log10ws	-2.48		Crippen Method
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	395.92	K	Joback Method
tc	589.01	K	Joback Method
tf	215.80	K	Joback Method
vc	0.398	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.04	J/mol×K	395.92	Joback Method
cpg	273.17	J/mol×K	556.83	Joback Method
cpg	260.54	J/mol×K	524.65	Joback Method
cpg	247.07	J/mol×K	492.47	Joback Method

cpg	232.71	J/mol×K	460.28	Joback Method
cpg	217.38	J/mol×K	428.10	Joback Method
cpg	285.01	J/mol×K	589.01	Joback Method
dvisc	0.0005493	Pa×s	395.92	Joback Method
dvisc	0.0005530	Pa×s	365.90	Joback Method
dvisc	0.0005574	Pa×s	335.88	Joback Method
dvisc	0.0005626	Pa×s	305.86	Joback Method
dvisc	0.0005690	Pa×s	275.84	Joback Method
dvisc	0.0005772	Pa×s	245.82	Joback Method
dvisc	0.0005877	Pa×s	215.80	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=C37520119&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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