1,2-Bis(3-cyclohexenyl)ethylene

Other names: 1,3-Bis(3-cyclohexen-1-yl)ethylene,c&t
1,2-Bis(3-cyclohexenyl)ethylene,c&t
Cyclohexene, 4,4'-(1,2-ethenediyl)bis-
4,4'-(vinylene-1,2-diyl)biscyclohexene
Inchi: InChI=1S/C14H20/c1-3-7-13(8-4-1)11-12-14-9-5-2-6-10-14/h1-3,5,11-14H,4,6-10H2/b12-
InchiKey: JLAKTYIHPZLLKX-VAWYXSNFSA-N
Formula: C14H20
SMILES: C1=CCC(C=CC2CC=CCC2)CC1
Mol. weight [g/mol]: 188.31
CAS: 17527-28-5

Physical Properties

Property code	Value	Unit	Source
gf	256.04	kJ/mol	Joback Method
hf	9.13	kJ/mol	Joback Method
hfus	18.33	kJ/mol	Joback Method
hvap	48.16	kJ/mol	Joback Method
log10ws	-4.55		Crippen Method
logp	4.255		Crippen Method
mcvol	173.500	ml/mol	McGowan Method
pc	2431.44	kPa	Joback Method
tb	561.30	K	Joback Method
tc	800.09	K	Joback Method
tf	258.74	K	Joback Method
vc	0.637	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.29	J/mol×K	561.30	Joback Method
cpg	537.52	J/mol×K	760.29	Joback Method
cpg	519.77	J/mol×K	720.49	Joback Method
cpg	500.55	J/mol×K	680.70	Joback Method
cpg	479.79	J/mol×K	640.90	Joback Method

cpg	457.40	J/mol×K	601.10	Joback Method
cpg	553.91	J/mol×K	800.09	Joback Method
dvisc	0.0001876	Pa×s	561.30	Joback Method
dvisc	0.0002513	Pa×s	510.87	Joback Method
dvisc	0.0003589	Pa×s	460.45	Joback Method
dvisc	0.0005594	Pa×s	410.02	Joback Method
dvisc	0.0009877	Pa×s	359.59	Joback Method
dvisc	0.0020989	Pa×s	309.17	Joback Method
dvisc	0.0059839	Pa×s	258.74	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	390.00 ± 1.00	K	0.47	NIST Webbook

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=C17527285&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

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