Cyclohexane, 1,1'-(2-ethyl-1,3-propanediyl)bis-

Inchi: InChI=1S/C17H32/c1-2-15(13-16-9-5-3-6-10-16)14-17-11-7-4-8-12-17/h15-17H,2-14H2,1
InchiKey: DSIGKGGCLFGHOR-UHFFFAOYSA-N
Formula: C17H32
SMILES: CCC(CC1CCCCC1)CC1CCCCC1
Mol. weight [g/mol]: 236.44
CAS: 54833-34-0

Physical Properties

Property code	Value	Unit	Source
chl	-10230.00	kJ/mol	NIST Webbook
gf	138.72	kJ/mol	Joback Method
hf	-290.85	kJ/mol	Joback Method
hfus	19.93	kJ/mol	Joback Method
hvap	53.91	kJ/mol	Joback Method
log10ws	-6.00		Crippen Method
logp	5.953		Crippen Method
mcvol	228.670	ml/mol	McGowan Method
pc	1690.72	kPa	Joback Method
tb	579.30 ± 0.30	K	NIST Webbook
tc	843.43	K	Joback Method
tf	281.11	K	Joback Method
vc	0.848	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.93	J/mol×K	627.02	Joback Method
cpg	686.18	J/mol×K	663.09	Joback Method
cpg	711.73	J/mol×K	699.16	Joback Method
cpg	735.66	J/mol×K	735.22	Joback Method
cpg	758.02	J/mol×K	771.29	Joback Method
cpg	778.86	J/mol×K	807.36	Joback Method
cpg	798.26	J/mol×K	843.43	Joback Method
dvisc	0.0108239	Pa×s	281.11	Joback Method

dvisc	0.0028616	Pa×s	338.76	Joback Method
dvisc	0.0011140	Pa×s	396.41	Joback Method
dvisc	0.0005511	Pa×s	454.06	Joback Method
dvisc	0.0003195	Pa×s	511.72	Joback Method
dvisc	0.0002068	Pa×s	569.37	Joback Method
dvisc	0.0001450	Pa×s	627.02	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=C54833340&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

chl:	Standard liquid enthalpy of combustion
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

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