Bis(ethylcyclohexyl)methane

Inchi: InChI=1S/C17H32/c1-3-16(11-7-5-8-12-16)15-17(4-2)13-9-6-10-14-17/h3-15H2,1-2H3
InchiKey: DBGHVWCPQPPOOZ-UHFFFAOYSA-N
Formula: C17H32
SMILES: CCC1(CC2(CC)CCCCC2)CCCCC1
Mol. weight [g/mol]: 236.44
CAS: 98028-64-9

Physical Properties

Property code	Value	Unit	Source
gf	130.18	kJ/mol	Joback Method
hf	-255.09	kJ/mol	Joback Method
hfus	10.86	kJ/mol	Joback Method
hvap	51.99	kJ/mol	Joback Method
log10ws	-6.24		Crippen Method
logp	6.098		Crippen Method
mcvol	228.670	ml/mol	McGowan Method
pc	1810.77	kPa	Joback Method
tb	627.94	K	Joback Method
tc	856.47	K	Joback Method
tf	343.91	K	Joback Method
vc	0.850	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	653.19	J/mol×K	627.94	Joback Method
cpg	680.07	J/mol×K	666.03	Joback Method
cpg	705.45	J/mol×K	704.12	Joback Method
cpg	729.60	J/mol×K	742.21	Joback Method
cpg	752.79	J/mol×K	780.30	Joback Method
cpg	775.28	J/mol×K	818.38	Joback Method
cpg	797.33	J/mol×K	856.47	Joback Method
cpl	466.10	J/mol×K	313.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C98028649&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
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