Cyclopentane, 1,1'-hexadecylidenebis-

Other names: 1,1-Dicyclopentylhexadecane
Inchi: InChI=1S/C26H50/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-23-26(24-19-15-16-20-24)25-21-1
InchiKey: CUGOOMPOAPXGEE-UHFFFAOYSA-N
Formula: C26H50
SMILES: CCCCCCCCCCCCCCCC(C1CCCC1)C1CCCC1
Mol. weight [g/mol]: 362.68
CAS: 55401-76-8

Physical Properties

Property code	Value	Unit	Source
gf	238.70	kJ/mol	Joback Method
hf	-464.29	kJ/mol	Joback Method
hfus	47.44	kJ/mol	Joback Method
hvap	73.60	kJ/mol	Joback Method
log10ws	-9.77		Crippen Method
logp	9.464		Crippen Method
mcvol	355.480	ml/mol	McGowan Method
pc	893.20	kPa	Joback Method
tb	824.40	K	Joback Method
tc	1017.88	K	Joback Method
tf	285.30 ± 0.50	K	NIST Webbook
vc	1.367	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1337.96	J/mol×K	1017.88	Joback Method
cpg	1208.65	J/mol×K	824.40	Joback Method
cpg	1233.48	J/mol×K	856.65	Joback Method
cpg	1256.91	J/mol×K	888.89	Joback Method
cpg	1278.99	J/mol×K	921.14	Joback Method
cpg	1299.81	J/mol×K	953.39	Joback Method
cpg	1319.44	J/mol×K	985.63	Joback Method
dvisc	0.0000885	Pa×s	824.40	Joback Method

dvisc	0.0030646	Pa×s	389.58	Joback Method
dvisc	0.0010680	Pa×s	462.05	Joback Method
dvisc	0.0004954	Pa×s	534.52	Joback Method
dvisc	0.0002760	Pa×s	606.99	Joback Method
dvisc	0.0001742	Pa×s	679.46	Joback Method
dvisc	0.0001202	Pa×s	751.93	Joback Method
hvapt	113.10	kJ/mol	498.00	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=C55401768&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
hvapt:	Enthalpy of vaporization at a given temperature
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