2,6,10,15,19-Pentamethylicosane, # 2

Inchi: InChI=1S/C26H54/c1-8-23(4)17-12-19-24(5)15-9-10-16-25(6)20-13-21-26(7)18-11-14-22
InchiKey: GNBIPBDUVGSNTO-UHFFFAOYSA-N
Formula: C26H54
SMILES: CCC(C)CCCC(C)CCCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]: 366.71

Physical Properties

Property code	Value	Unit	Source
gf	155.84	kJ/mol	Joback Method
hf	-606.37	kJ/mol	Joback Method
hfus	45.48	kJ/mol	Joback Method
hvap	71.53	kJ/mol	Joback Method
log10ws	-9.50		Crippen Method
logp	9.668		Crippen Method
mcvol	377.200	ml/mol	McGowan Method
pc	740.84	kPa	Joback Method
rinpol	2274.00		NIST Webbook
tb	792.08	K	Joback Method
tc	971.37	K	Joback Method
tf	307.78	K	Joback Method
vc	1.462	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1218.23	J/mol×K	792.08	Joback Method
cpg	1242.46	J/mol×K	821.96	Joback Method
cpg	1265.48	J/mol×K	851.84	Joback Method
cpg	1287.34	J/mol×K	881.73	Joback Method
cpg	1308.09	J/mol×K	911.61	Joback Method
cpg	1327.77	J/mol×K	941.49	Joback Method
cpg	1346.42	J/mol×K	971.37	Joback Method
dvisc	0.0100106	Pa×s	307.78	Joback Method
dvisc	0.0013686	Pa×s	388.50	Joback Method

dvisc	0.0003710	Pa×s	469.21	Joback Method
dvisc	0.0001476	Pa×s	549.93	Joback Method
dvisc	0.0000743	Pa×s	630.65	Joback Method
dvisc	0.0000437	Pa×s	711.36	Joback Method
dvisc	0.0000287	Pa×s	792.08	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R557869&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
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