

2,6,10,15,19-Pentamethylcosane, # 1

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)CCCC(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	2257.00		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/molxK	792.08	Joback Method
cpg	1327.77	J/molxK	941.49	Joback Method
cpg	1308.09	J/molxK	911.61	Joback Method
cpg	1287.34	J/molxK	881.73	Joback Method
cpg	1265.48	J/molxK	851.84	Joback Method
cpg	1242.46	J/molxK	821.96	Joback Method
cpg	1346.42	J/molxK	971.37	Joback Method
dvisc	0.0000287	Paxs	792.08	Joback Method
dvisc	0.0000437	Paxs	711.36	Joback Method

dvisc	0.0000743	Paxs	630.65	Joback Method
dvisc	0.0001476	Paxs	549.93	Joback Method
dvisc	0.0003710	Paxs	469.21	Joback Method
dvisc	0.0013686	Paxs	388.50	Joback Method
dvisc	0.0100106	Paxs	307.78	Joback Method

Sources

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=R557854&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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