4,18-dimethyl-tetracosane

Inchi: InChI=1S/C26H54/c1-5-7-8-18-23-26(4)24-20-17-15-13-11-9-10-12-14-16-19-22-25(3)21
InchiKey: KDVGMVXRRHIZTK-UHFFFAOYSA-N
Formula: C26H54
SMILES: CCCCCCC(C)CCCCCCCCCCCCCC(C)CCC
Mol. weight [g/mol]: 366.71

Physical Properties

Property code	Value	Unit	Source
gf	163.16	kJ/mol	Joback Method
hf	-590.53	kJ/mol	Joback Method
hfus	56.05	kJ/mol	Joback Method
hvap	72.69	kJ/mol	Joback Method
log10ws	-10.22		Crippen Method
logp	10.100		Crippen Method
mcvol	377.200	ml/mol	McGowan Method
pc	731.25	kPa	Joback Method
rinpol	2488.00		NIST Webbook
tb	793.40	K	Joback Method
tc	971.62	K	Joback Method
tf	352.78	K	Joback Method
vc	1.480	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1217.07	J/mol×K	793.40	Joback Method
cpg	1326.13	J/mol×K	941.92	Joback Method
cpg	1306.47	J/mol×K	912.22	Joback Method
cpg	1285.78	J/mol×K	882.51	Joback Method
cpg	1264.02	J/mol×K	852.81	Joback Method
cpg	1241.13	J/mol×K	823.10	Joback Method
cpg	1344.80	J/mol×K	971.62	Joback Method
dvisc	0.0000369	Pa×s	793.40	Joback Method
dvisc	0.0000531	Pa×s	719.96	Joback Method

dvisc	0.0000831	Pa×s	646.53	Joback Method
dvisc	0.0001457	Pa×s	573.09	Joback Method
dvisc	0.0003014	Pa×s	499.65	Joback Method
dvisc	0.0008010	Pa×s	426.22	Joback Method
dvisc	0.0031975	Pa×s	352.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R404676&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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