

3,13-Dimethylheneicosane

Inchi: InChI=1S/C23H48/c1-5-7-8-9-13-17-20-23(4)21-18-15-12-10-11-14-16-19-22(3)6-2/h22-23
InchiKey: LHQHTDTVWGGUAV-UHFFFAOYSA-N
Formula: C23H48
SMILES: CCCCCCCCC(C)CCCCCCCCC(C)CC
Mol. weight [g/mol]: 324.63

Physical Properties

Property code	Value	Unit	Source
gf	137.90	kJ/mol	Joback Method
hf	-528.61	kJ/mol	Joback Method
hfus	48.28	kJ/mol	Joback Method
hvap	66.02	kJ/mol	Joback Method
log10ws	-8.97		Crippen Method
logp	8.930		Crippen Method
mcvol	334.930	ml/mol	McGowan Method
pc	859.99	kPa	Joback Method
rinsol	2211.00		NIST Webbook
tb	724.76	K	Joback Method
tc	892.98	K	Joback Method
tf	318.97	K	Joback Method
vc	1.312	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1025.05	J/molxK	724.76	Joback Method
cpg	1047.64	J/molxK	752.80	Joback Method
cpg	1069.23	J/molxK	780.83	Joback Method
cpg	1089.83	J/molxK	808.87	Joback Method
cpg	1109.50	J/molxK	836.90	Joback Method
cpg	1128.25	J/molxK	864.94	Joback Method
cpg	1146.14	J/molxK	892.98	Joback Method
dvisc	0.0049702	Paxs	318.97	Joback Method
dvisc	0.0012262	Paxs	386.60	Joback Method

dvisc	0.0004590	Paxs	454.23	Joback Method
dvisc	0.0002216	Paxs	521.87	Joback Method
dvisc	0.0001265	Paxs	589.50	Joback Method
dvisc	0.0000810	Paxs	657.13	Joback Method
dvisc	0.0000564	Paxs	724.76	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R539410&Units=SI

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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