2,2-Dimethylhexacosane

Inchi: InChI=1S/C28H58/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-2
InchiKey: GBBSPWFVRGPIKA-UHFFFAOYSA-N
Formula: C28H58
SMILES: CCCCCCCCCCCCCCCCCCCCCCCCCC(C)(C)C
Mol. weight [g/mol]: 394.76

Physical Properties

Property code	Value	Unit	Source
gf	187.72	kJ/mol	Joback Method
hf	-630.00	kJ/mol	Joback Method
hfus	60.86	kJ/mol	Joback Method
hvap	76.63	kJ/mol	Joback Method
log10ws	-11.30		Crippen Method
logp	11.025		Crippen Method
mcvol	405.380	ml/mol	McGowan Method
pc	661.87	kPa	Joback Method
rinpol	2718.00		NIST Webbook
rinpol	2718.00		NIST Webbook
tb	836.81	K	Joback Method
tc	1024.78	K	Joback Method
tf	407.74	K	Joback Method
vc	1.593	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1347.95	J/mol×K	836.81	Joback Method
cpg	1461.21	J/mol×K	993.45	Joback Method
cpg	1440.80	J/mol×K	962.13	Joback Method
cpg	1419.34	J/mol×K	930.80	Joback Method
cpg	1396.76	J/mol×K	899.47	Joback Method
cpg	1372.99	J/mol×K	868.14	Joback Method
cpg	1480.64	J/mol×K	1024.78	Joback Method
dvisc	0.0000259	Pa×s	836.81	Joback Method

dvisc	0.0000370	Pa×s	765.30	Joback Method
dvisc	0.0000568	Pa×s	693.79	Joback Method
dvisc	0.0000964	Pa×s	622.27	Joback Method
dvisc	0.0001874	Pa×s	550.76	Joback Method
dvisc	0.0004444	Pa×s	479.25	Joback Method
dvisc	0.0014268	Pa×s	407.74	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R415042&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