Tricosane, 2,6,10,14,18,22-hexamethyl

Inchi: InChI=1S/C29H60/c1-24(2)14-9-16-26(5)18-11-20-28(7)22-13-23-29(8)21-12-19-27(6)17
InchiKey: OKAPZOWZLTVHEP-UHFFFAOYSA-N
Formula: C29H60
SMILES: CC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]: 408.79

Physical Properties

Property code	Value	Unit	Source
gf	178.66	kJ/mol	Joback Method
hf	-673.57	kJ/mol	Joback Method
hfus	49.73	kJ/mol	Joback Method
hvap	77.82	kJ/mol	Joback Method
log10ws	-10.51		Crippen Method
logp	10.694		Crippen Method
mcvol	419.470	ml/mol	McGowan Method
pc	639.63	kPa	Joback Method
rinpol	2523.00		NIST Webbook
rinpol	2523.00		NIST Webbook
rinpol	2522.00		NIST Webbook
rinpol	2523.00		NIST Webbook
rinpol	2523.00		NIST Webbook
tb	860.28	K	Joback Method
tc	1053.42	K	Joback Method
tf	326.59	K	Joback Method
vc	1.623	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1416.90	J/mol×K	860.28	Joback Method
cpg	1442.64	J/mol×K	892.47	Joback Method
cpg	1466.96	J/mol×K	924.66	Joback Method
cpg	1489.92	J/mol×K	956.85	Joback Method
cpg	1511.60	J/mol×K	989.04	Joback Method

cpg	1532.04	J/mol×K	1021.23	Joback Method
cpg	1551.33	J/mol×K	1053.42	Joback Method
dvisc	0.0082516	Pa×s	326.59	Joback Method
dvisc	0.0009690	Pa×s	415.54	Joback Method
dvisc	0.0002422	Pa×s	504.49	Joback Method
dvisc	0.0000917	Pa×s	593.43	Joback Method
dvisc	0.0000447	Pa×s	682.38	Joback Method
dvisc	0.0000258	Pa×s	771.33	Joback Method
dvisc	0.0000166	Pa×s	860.28	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=R213851&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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