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

Inchi: InChI=1S/C30H62/c1-9-26(4)16-11-18-28(6)20-13-22-30(8)24-14-23-29(7)21-12-19-27(5
InchiKey: PEDCUYIFPGMASW-UHFFFAOYSA-N
Formula: C30H62
SMILES: CCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]: 422.81

Physical Properties

Property code	Value	Unit	Source
gf	187.08	kJ/mol	Joback Method
hf	-694.21	kJ/mol	Joback Method
hfus	52.32	kJ/mol	Joback Method
hvap	80.05	kJ/mol	Joback Method
log10ws	-10.93		Crippen Method
logp	11.084		Crippen Method
mcvol	433.560	ml/mol	McGowan Method
pc	609.66	kPa	Joback Method
rinpol	2627.00		NIST Webbook
rinpol	2627.00		NIST Webbook
rinpol	2627.00		NIST Webbook
rinpol	2627.00		NIST Webbook
rinpol	2627.00		NIST Webbook
tb	883.16	K	Joback Method
tc	1082.52	K	Joback Method
tf	337.86	K	Joback Method
vc	1.679	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1484.10	J/mol×K	883.16	Joback Method
cpg	1510.47	J/mol×K	916.39	Joback Method
cpg	1535.32	J/mol×K	949.61	Joback Method
cpg	1558.73	J/mol×K	982.84	Joback Method
cpg	1580.78	J/mol×K	1016.06	Joback Method

cpg	1601.55	J/mol×K	1049.29	Joback Method
cpg	1621.11	J/mol×K	1082.52	Joback Method
dvisc	0.0066197	Pa×s	337.86	Joback Method
dvisc	0.0008030	Pa×s	428.74	Joback Method
dvisc	0.0002037	Pa×s	519.63	Joback Method
dvisc	0.0000778	Pa×s	610.51	Joback Method
dvisc	0.0000381	Pa×s	701.39	Joback Method
dvisc	0.0000220	Pa×s	792.28	Joback Method
dvisc	0.0000142	Pa×s	883.16	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=R213846&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