

Tetracosane, 2,6,10,14,19-pentamethyl

Inchi: InChI=1S/C29H60/c1-8-9-10-17-26(4)18-11-12-19-27(5)21-14-23-29(7)24-15-22-28(6)20
InchiKey: YCDUQPPJIYTIJD-UHFFFAOYSA-N
Formula: C29H60
SMILES: CCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]: 408.79

Physical Properties

Property code	Value	Unit	Source
gf	181.10	kJ/mol	Joback Method
hf	-668.29	kJ/mol	Joback Method
hfus	53.25	kJ/mol	Joback Method
hvap	78.21	kJ/mol	Joback Method
log10ws	-10.75		Crippen Method
logp	10.838		Crippen Method
mcvol	419.470	ml/mol	McGowan Method
pc	637.05	kPa	Joback Method
rinsol	2569.00		NIST Webbook
tb	860.72	K	Joback Method
tc	1054.25	K	Joback Method
tf	341.59	K	Joback Method
vc	1.629	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1416.53	J/molxK	860.72	Joback Method
cpg	1442.34	J/molxK	892.98	Joback Method
cpg	1466.72	J/molxK	925.23	Joback Method
cpg	1489.75	J/molxK	957.49	Joback Method
cpg	1511.50	J/molxK	989.74	Joback Method
cpg	1532.03	J/molxK	1022.00	Joback Method
cpg	1551.40	J/molxK	1054.25	Joback Method
dvisc	0.0054428	Paxs	341.59	Joback Method
dvisc	0.0008051	Paxs	428.11	Joback Method

dvisc	0.0002264	Paxs	514.63	Joback Method
dvisc	0.0000917	Paxs	601.15	Joback Method
dvisc	0.0000467	Paxs	687.68	Joback Method
dvisc	0.0000276	Paxs	774.20	Joback Method
dvisc	0.0000181	Paxs	860.72	Joback Method

Sources

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=R214116&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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