

Tridecane, 4,6,8,10-tetramethyl, # 3

Inchi:	InChI=1S/C17H36/c1-7-9-14(3)11-16(5)13-17(6)12-15(4)10-8-2/h14-17H,7-13H2,1-6H3
InchiKey:	WFWUWFLROPIHOH-UHFFFAOYSA-N
Formula:	C17H36
SMILES:	CCCC(C)CC(C)CC(C)CC(C)CCC
Mol. weight [g/mol]:	240.47

Physical Properties

Property code	Value	Unit	Source
gf	82.50	kJ/mol	Joback Method
hf	-415.33	kJ/mol	Joback Method
hfus	25.69	kJ/mol	Joback Method
hvap	51.88	kJ/mol	Joback Method
log10ws	-5.97		Crippen Method
logp	6.301		Crippen Method
mcvol	250.390	ml/mol	McGowan Method
pc	1259.27	kPa	Joback Method
rinpol	1480.00		NIST Webbook
rinpol	1480.00		NIST Webbook
tb	586.60	K	Joback Method
tc	755.14	K	Joback Method
tf	221.35	K	Joback Method
vc	0.964	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	667.94	J/molxK	586.60	Joback Method
cpg	688.99	J/molxK	614.69	Joback Method
cpg	709.16	J/molxK	642.78	Joback Method
cpg	728.45	J/molxK	670.87	Joback Method
cpg	746.90	J/molxK	698.96	Joback Method
cpg	764.54	J/molxK	727.05	Joback Method
cpg	781.39	J/molxK	755.14	Joback Method
dvisc	0.0347064	Paxs	221.35	Joback Method

dvisc	0.0046514	Paxs	282.23	Joback Method
dvisc	0.0012720	Paxs	343.10	Joback Method
dvisc	0.0005141	Paxs	403.97	Joback Method
dvisc	0.0002635	Paxs	464.85	Joback Method
dvisc	0.0001576	Paxs	525.72	Joback Method
dvisc	0.0001049	Paxs	586.60	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=R568537&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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