

3,3,17,17-Tetraethylnonadecane

Inchi:	InChI=1S/C27H56/c1-7-26(8-2,9-3)24-22-20-18-16-14-13-15-17-19-21-23-25-27(10-4,11
InchiKey:	NZBURXIMHIOSRH-UHFFFAOYSA-N
Formula:	C27H56
SMILES:	CCC(CC)(CC)CCCCCCCCCCCCCCC(CC)(CC)CC
Mol. weight [g/mol]:	380.73

Physical Properties

Property code	Value	Unit	Source
gf	182.14	kJ/mol	Joback Method
hf	-618.11	kJ/mol	Joback Method
hfus	50.86	kJ/mol	Joback Method
hvap	73.10	kJ/mol	Joback Method
log10ws	-10.64		Crippen Method
logp	10.491		Crippen Method
mcvol	391.290	ml/mol	McGowan Method
pc	702.84	kPa	Joback Method
rinpol	2592.00		NIST Webbook
rinpol	2592.00		NIST Webbook
tb	810.70	K	Joback Method
tc	993.31	K	Joback Method
tf	398.89	K	Joback Method
vc	1.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1282.31	J/molxK	810.70	Joback Method
cpg	1392.15	J/molxK	962.87	Joback Method
cpg	1372.25	J/molxK	932.44	Joback Method
cpg	1351.40	J/molxK	902.00	Joback Method
cpg	1329.51	J/molxK	871.57	Joback Method
cpg	1306.51	J/molxK	841.13	Joback Method
cpg	1411.15	J/molxK	993.31	Joback Method
dvisc	0.0000242	Paxs	810.70	Joback Method

dvisc	0.0000354	Paxs	742.06	Joback Method
dvisc	0.0000560	Paxs	673.43	Joback Method
dvisc	0.0000982	Paxs	604.79	Joback Method
dvisc	0.0001989	Paxs	536.16	Joback Method
dvisc	0.0004955	Paxs	467.52	Joback Method
dvisc	0.0016899	Paxs	398.89	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=R415126&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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