3,3,7,7-Tetraethylnonane

Inchi: InChI=1S/C17H36/c1-7-16(8-2,9-3)14-13-15-17(10-4,11-5)12-6/h7-15H2,1-6H3
InchiKey: FHNMNEJLHAEGLT-UHFFFAOYSA-N
Formula: C17H36
SMILES: CCC(CC)(CC)CCCC(CC)(CC)CC
Mol. weight [g/mol]: 240.47

Physical Properties

Property code	Value	Unit	Source
gf	97.94	kJ/mol	Joback Method
hf	-411.71	kJ/mol	Joback Method
hfus	24.96	kJ/mol	Joback Method
hvap	50.84	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	6.590		Crippen Method
mcvol	250.390	ml/mol	McGowan Method
pc	1264.65	kPa	Joback Method
rinpol	1580.00		NIST Webbook
tb	581.90	K	Joback Method
tc	754.89	K	Joback Method
tf	286.19	K	Joback Method
vc	0.966	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	671.50	J/mol×K	581.90	Joback Method
cpg	768.68	J/mol×K	726.06	Joback Method
cpg	751.15	J/mol×K	697.23	Joback Method
cpg	732.71	J/mol×K	668.40	Joback Method
cpg	713.33	J/mol×K	639.56	Joback Method
cpg	692.94	J/mol×K	610.73	Joback Method
cpg	785.35	J/mol×K	754.89	Joback Method
dvisc	0.0001117	Pa×s	581.90	Joback Method
dvisc	0.0001635	Pa×s	532.62	Joback Method

dvisc	0.0002584	Pa×s	483.33	Joback Method
dvisc	0.0004533	Pa×s	434.04	Joback Method
dvisc	0.0009184	Pa×s	384.76	Joback Method
dvisc	0.0022894	Pa×s	335.48	Joback Method
dvisc	0.0078169	Pa×s	286.19	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=R415146&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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