

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	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	671.50	J/molxK	581.90	Joback Method
cpg	692.94	J/molxK	610.73	Joback Method
cpg	713.33	J/molxK	639.56	Joback Method
cpg	732.71	J/molxK	668.40	Joback Method
cpg	751.15	J/molxK	697.23	Joback Method
cpg	768.68	J/molxK	726.06	Joback Method
cpg	785.35	J/molxK	754.89	Joback Method
dvisc	0.0078169	Paxs	286.19	Joback Method
dvisc	0.0022894	Paxs	335.48	Joback Method

dvisc	0.0009184	Paxs	384.76	Joback Method
dvisc	0.0004533	Paxs	434.04	Joback Method
dvisc	0.0002584	Paxs	483.33	Joback Method
dvisc	0.0001635	Paxs	532.62	Joback Method
dvisc	0.0001117	Paxs	581.90	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=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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