

3,3,19,19-Tetraethylhenicosane

Inchi:	InChI=1S/C29H60/c1-7-28(8-2,9-3)26-24-22-20-18-16-14-13-15-17-19-21-23-25-27-29(1
InchiKey:	BHVOFKSRUBQNNH-UHFFFAOYSA-N
Formula:	C29H60
SMILES:	CCC(CC)(CC)CCCCCCCCCCCCCCCCC(CC)(CC)CC
Mol. weight [g/mol]:	408.79

Physical Properties

Property code	Value	Unit	Source
gf	198.98	kJ/mol	Joback Method
hf	-659.39	kJ/mol	Joback Method
hfus	56.04	kJ/mol	Joback Method
hvap	77.56	kJ/mol	Joback Method
log10ws	-11.48		Crippen Method
logp	11.271		Crippen Method
mcvol	419.470	ml/mol	McGowan Method
pc	636.40	kPa	Joback Method
rinpol	2795.00		NIST Webbook
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tb	856.46	K	Joback Method
tc	1048.74	K	Joback Method
tf	421.43	K	Joback Method
vc	1.637	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1414.29	J/molxK	856.46	Joback Method
cpg	1529.11	J/molxK	1016.70	Joback Method
cpg	1508.33	J/molxK	984.65	Joback Method
cpg	1486.55	J/molxK	952.60	Joback Method
cpg	1463.69	J/molxK	920.55	Joback Method
cpg	1439.63	J/molxK	888.51	Joback Method
cpg	1548.98	J/molxK	1048.74	Joback Method
dvisc	0.0000175	Paxs	856.46	Joback Method

dvisc	0.0000255	Paxs	783.95	Joback Method
dvisc	0.0000404	Paxs	711.45	Joback Method
dvisc	0.0000708	Paxs	638.94	Joback Method
dvisc	0.0001434	Paxs	566.44	Joback Method
dvisc	0.0003573	Paxs	493.93	Joback Method
dvisc	0.0012185	Paxs	421.43	Joback Method

Sources

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=R415131&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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