

3,3,15,15-Tetraethylheptadecane

Inchi:	InChI=1S/C25H52/c1-7-24(8-2,9-3)22-20-18-16-14-13-15-17-19-21-23-25(10-4,11-5)12-6
InchiKey:	GAXDYHINTQQDKP-UHFFFAOYSA-N
Formula:	C25H52
SMILES:	CCC(CC)(CC)CCCCCCCCCCCCC(CC)(CC)CC
Mol. weight [g/mol]:	352.68

Physical Properties

Property code	Value	Unit	Source
gf	165.30	kJ/mol	Joback Method
hf	-576.83	kJ/mol	Joback Method
hfus	45.68	kJ/mol	Joback Method
hvap	68.65	kJ/mol	Joback Method
log10ws	-9.80		Crippen Method
logp	9.710		Crippen Method
mvol	363.110	ml/mol	McGowan Method
pc	780.25	kPa	Joback Method
rinpol	2387.00		NIST Webbook
rinpol	2387.00		NIST Webbook
tb	764.94	K	Joback Method
tc	941.10	K	Joback Method
tf	376.35	K	Joback Method
vc	1.413	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1153.01	J/molxK	764.94	Joback Method
cpg	1176.37	J/molxK	794.30	Joback Method
cpg	1198.60	J/molxK	823.66	Joback Method
cpg	1219.77	J/molxK	853.02	Joback Method
cpg	1239.94	J/molxK	882.38	Joback Method
cpg	1259.18	J/molxK	911.74	Joback Method
cpg	1277.54	J/molxK	941.10	Joback Method
dvisc	0.0023310	Paxs	376.35	Joback Method

dvisc	0.0006833	Paxs	441.12	Joback Method
dvisc	0.0002742	Paxs	505.88	Joback Method
dvisc	0.0001354	Paxs	570.64	Joback Method
dvisc	0.0000772	Paxs	635.41	Joback Method
dvisc	0.0000488	Paxs	700.17	Joback Method
dvisc	0.0000334	Paxs	764.94	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=R415111&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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