

5,5-Diethylhenicosane

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

Physical Properties

Property code	Value	Unit	Source
gf	162.46	kJ/mol	Joback Method
hf	-568.08	kJ/mol	Joback Method
hfus	53.09	kJ/mol	Joback Method
hvap	69.95	kJ/mol	Joback Method
log10ws	-10.05		Crippen Method
logp	9.854		Crippen Method
mvol	363.110	ml/mol	McGowan Method
pc	772.03	kPa	Joback Method
rinpol	2410.00		NIST Webbook
tb	768.17	K	Joback Method
tc	942.43	K	Joback Method
tf	373.93	K	Joback Method
vc	1.425	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1152.23	J/molxK	768.17	Joback Method
cpg	1175.54	J/molxK	797.21	Joback Method
cpg	1197.74	J/molxK	826.26	Joback Method
cpg	1218.90	J/molxK	855.30	Joback Method
cpg	1239.07	J/molxK	884.35	Joback Method
cpg	1258.30	J/molxK	913.39	Joback Method
cpg	1276.64	J/molxK	942.43	Joback Method
dvisc	0.0022059	Paxs	373.93	Joback Method
dvisc	0.0006908	Paxs	439.64	Joback Method

dvisc	0.0002925	Paxs	505.34	Joback Method
dvisc	0.0001510	Paxs	571.05	Joback Method
dvisc	0.0000893	Paxs	636.76	Joback Method
dvisc	0.0000583	Paxs	702.46	Joback Method
dvisc	0.0000409	Paxs	768.17	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=R415468&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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