6,6-Diethylhexacosane

Inchi: InChI=1S/C30H62/c1-5-9-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-27-29-30(7-3,
InchiKey: LFEGVRRICLNHBD-UHFFFAOYSA-N
Formula: C30H62
SMILES: CCCCCCCCCCCCCCCCCCCCCC(CC)(CC)CCCCC
Mol. weight [g/mol]: 422.81

Physical Properties

Property code	Value	Unit	Source
gf	204.56	kJ/mol	Joback Method
hf	-671.28	kJ/mol	Joback Method
hfus	66.04	kJ/mol	Joback Method
hvap	81.08	kJ/mol	Joback Method
log10ws	-12.14		Crippen Method
logp	11.805		Crippen Method
mcvol	433.560	ml/mol	McGowan Method
pc	601.03	kPa	Joback Method
rinpol	2901.00		NIST Webbook
tb	882.57	K	Joback Method
tc	1084.26	K	Joback Method
tf	430.28	K	Joback Method
vc	1.704	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1481.58	J/mol×K	882.57	Joback Method
cpg	1601.30	J/mol×K	1050.64	Joback Method
cpg	1579.83	J/mol×K	1017.03	Joback Method
cpg	1557.22	J/mol×K	983.41	Joback Method
cpg	1533.37	J/mol×K	949.80	Joback Method
cpg	1508.19	J/mol×K	916.18	Joback Method
cpg	1621.72	J/mol×K	1084.26	Joback Method
dvisc	0.0000189	Pa×s	882.57	Joback Method
dvisc	0.0000271	Pa×s	807.19	Joback Method

dvisc	0.0000417	Pa×s	731.81	Joback Method
dvisc	0.0000707	Pa×s	656.42	Joback Method
dvisc	0.0001379	Pa×s	581.04	Joback Method
dvisc	0.0003278	Pa×s	505.66	Joback Method
dvisc	0.0010558	Pa×s	430.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R415755&Units=SI
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

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