

6,6-Diethyloctacosane

Inchi:	InChI=1S/C32H66/c1-5-9-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-29-31-32
InchiKey:	XJURZQNBZRGTGW-UHFFFAOYSA-N
Formula:	C32H66
SMILES:	CCCCCCCCCCCCCCCCCCCC(C)(C)CCCC
Mol. weight [g/mol]:	450.87

Physical Properties

Property code	Value	Unit	Source
gf	221.40	kJ/mol	Joback Method
hf	-712.56	kJ/mol	Joback Method
hfus	71.22	kJ/mol	Joback Method
hvap	85.53	kJ/mol	Joback Method
log10ws	-12.98		Crippen Method
logp	12.585		Crippen Method
mvol	461.740	ml/mol	McGowan Method
pc	548.20	kPa	Joback Method
rinpol	3104.00		NIST Webbook
tb	928.33	K	Joback Method
tc	1148.15	K	Joback Method
tf	452.82	K	Joback Method
vc	1.817	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1617.29	J/molxK	928.33	Joback Method
cpg	1645.89	J/molxK	964.97	Joback Method
cpg	1672.85	J/molxK	1001.60	Joback Method
cpg	1698.31	J/molxK	1038.24	Joback Method
cpg	1722.38	J/molxK	1074.88	Joback Method
cpg	1745.21	J/molxK	1111.51	Joback Method
cpg	1766.92	J/molxK	1148.15	Joback Method
dvisc	0.0007756	Paxs	452.82	Joback Method
dvisc	0.0002401	Paxs	532.07	Joback Method

dvisc	0.0001008	Paxs	611.32	Joback Method
dvisc	0.0000516	Paxs	690.57	Joback Method
dvisc	0.0000303	Paxs	769.83	Joback Method
dvisc	0.0000197	Paxs	849.08	Joback Method
dvisc	0.0000138	Paxs	928.33	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R415780&Units=SI
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

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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