Triacontylamine, N,N-dimethyl-

Inchi: InChI=1S/C32H67N/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-2
InchiKey: CZABEKIWLBCGKT-UHFFFAOYSA-N
Formula: C32H67N
SMILES: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCN(C)C
Mol. weight [g/mol]: 465.88

Physical Properties

Property code	Value	Unit	Source
gf	329.34	kJ/mol	Joback Method
hf	-636.28	kJ/mol	Joback Method
hfus	81.66	kJ/mol	Joback Method
hvap	88.87	kJ/mol	Joback Method
log10ws	-11.79		Crippen Method
logp	11.491		Crippen Method
mcvol	471.720	ml/mol	McGowan Method
pc	542.85	kPa	Joback Method
rinpol	3305.00		NIST Webbook
tb	944.00	K	Joback Method
tc	1178.19	K	Joback Method
tf	482.87	K	Joback Method
vc	1.845	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1665.43	J/mol×K	944.00	Joback Method
cpg	1695.71	J/mol×K	983.03	Joback Method
cpg	1724.07	J/mol×K	1022.06	Joback Method
cpg	1750.66	J/mol×K	1061.09	Joback Method
cpg	1775.62	J/mol×K	1100.12	Joback Method
cpg	1799.10	J/mol×K	1139.16	Joback Method
cpg	1821.25	J/mol×K	1178.19	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406310&Units=SI

Legend

cpg:	Ideal gas heat capacity
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