Tetratriacontylamine, N,N-dimethyl-

Inchi: InChI=1S/C36H75N/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: SNCBTQALXOPLJS-UHFFFAOYSA-N
Formula: C36H75N
SMILES: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCN(C)C
Mol. weight [g/mol]: 521.99

Physical Properties

Property code	Value	Unit	Source
gf	363.02	kJ/mol	Joback Method
hf	-718.84	kJ/mol	Joback Method
hfus	92.02	kJ/mol	Joback Method
hvap	97.77	kJ/mol	Joback Method
log10ws	-13.46		Crippen Method
logp	13.051		Crippen Method
mcvol	528.080	ml/mol	McGowan Method
pc	457.35	kPa	Joback Method
rinpol	3703.00		NIST Webbook
rinpol	3703.00		NIST Webbook
tb	1035.52	K	Joback Method
tc	1333.32	K	Joback Method
tf	527.95	K	Joback Method
vc	2.070	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1942.82	J/mol×K	1035.52	Joback Method
cpg	1979.54	J/mol×K	1085.15	Joback Method
cpg	2013.47	J/mol×K	1134.79	Joback Method
cpg	2044.94	J/mol×K	1184.42	Joback Method
cpg	2074.28	J/mol×K	1234.06	Joback Method
cpg	2101.83	J/mol×K	1283.69	Joback Method
cpg	2127.92	J/mol×K	1333.32	Joback Method

Sources

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=U406312&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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