Dotriacontylamine, N,N-dimethyl-

Inchi: InChI=1S/C34H71N/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: PGRMUFNWERBXHT-UHFFFAOYSA-N
Formula: C34H71N
SMILES: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCN(C)C
Mol. weight [g/mol]: 493.93

Physical Properties

Property code	Value	Unit	Source
gf	346.18	kJ/mol	Joback Method
hf	-677.56	kJ/mol	Joback Method
hfus	86.84	kJ/mol	Joback Method
hvap	93.32	kJ/mol	Joback Method
log10ws	-12.62		Crippen Method
logp	12.271		Crippen Method
mcvol	499.900	ml/mol	McGowan Method
pc	497.36	kPa	Joback Method
rinpol	3503.00		NIST Webbook
rinpol	3503.00		NIST Webbook
tb	989.76	K	Joback Method
tc	1252.28	K	Joback Method
tf	505.41	K	Joback Method
vc	1.958	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1803.46	J/mol×K	989.76	Joback Method
cpg	1836.66	J/mol×K	1033.51	Joback Method
cpg	1867.55	J/mol×K	1077.27	Joback Method
cpg	1896.34	J/mol×K	1121.02	Joback Method
cpg	1923.27	J/mol×K	1164.77	Joback Method
cpg	1948.53	J/mol×K	1208.53	Joback Method
cpg	1972.36	J/mol×K	1252.28	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=U406311&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

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