Tetracosylamine, N,N-dimethyl-

Inchi: InChI=1S/C26H55N/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: PFPFHPHPGFCJND-UHFFFAOYSA-N
Formula: C26H55N
SMILES: CCCCCCCCCCCCCCCCCCCCCCCCCN(C)C
Mol. weight [g/mol]: 381.72

Physical Properties

Property code	Value	Unit	Source
gf	278.82	kJ/mol	Joback Method
hf	-512.44	kJ/mol	Joback Method
hfus	66.12	kJ/mol	Joback Method
hvap	75.51	kJ/mol	Joback Method
log10ws	-9.28		Crippen Method
logp	9.150		Crippen Method
mcvol	387.180	ml/mol	McGowan Method
pc	724.18	kPa	Joback Method
rinpol	2713.00		NIST Webbook
tb	806.72	K	Joback Method
tc	987.81	K	Joback Method
tf	415.25	K	Joback Method
vc	1.510	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1262.14	J/mol×K	806.72	Joback Method
cpg	1286.50	J/mol×K	836.90	Joback Method
cpg	1309.66	J/mol×K	867.08	Joback Method
cpg	1331.67	J/mol×K	897.26	Joback Method
cpg	1352.58	J/mol×K	927.45	Joback Method
cpg	1372.46	J/mol×K	957.63	Joback Method
cpg	1391.36	J/mol×K	987.81	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=U406307&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