Docosylamine, N,N-dimethyl-

Inchi: InChI=1S/C24H51N/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: ICZKASVWFUJTEI-UHFFFAOYSA-N
Formula: C24H51N
SMILES: CCCCCCCCCCCCCCCCCCCCCCCN(C)C
Mol. weight [g/mol]: 353.67

Physical Properties

Property code	Value	Unit	Source
gf	261.98	kJ/mol	Joback Method
hf	-471.16	kJ/mol	Joback Method
hfus	60.94	kJ/mol	Joback Method
hvap	71.06	kJ/mol	Joback Method
log10ws	-8.44		Crippen Method
logp	8.370		Crippen Method
mcvol	359.000	ml/mol	McGowan Method
pc	805.25	kPa	Joback Method
rinpol	2511.00		NIST Webbook
tb	760.96	K	Joback Method
tc	932.42	K	Joback Method
tf	392.71	K	Joback Method
vc	1.397	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1132.54	J/mol×K	760.96	Joback Method
cpg	1155.63	J/mol×K	789.54	Joback Method
cpg	1177.65	J/mol×K	818.11	Joback Method
cpg	1198.64	J/mol×K	846.69	Joback Method
cpg	1218.65	J/mol×K	875.27	Joback Method
cpg	1237.72	J/mol×K	903.85	Joback Method
cpg	1255.89	J/mol×K	932.42	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406306&Units=SI
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

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