Methylamine, N,N-bis(N.-tetradecyl)-

Inchi: InChI=1S/C29H61N/c1-4-6-8-10-12-14-16-18-20-22-24-26-28-30(3)29-27-25-23-21-19-17
InchiKey: KUFYUMSBZMUWAN-UHFFFAOYSA-N
Formula: C29H61N
SMILES: CCCCCCCCCCCCCCN(C)CCCCCCCCCCCCCC
Mol. weight [g/mol]: 423.80
CAS: 41961-81-3

Physical Properties

Property code	Value	Unit	Source
gf	304.08	kJ/mol	Joback Method
hf	-574.36	kJ/mol	Joback Method
hfus	73.89	kJ/mol	Joback Method
hvap	82.19	kJ/mol	Joback Method
log10ws	-10.53		Crippen Method
logp	10.320		Crippen Method
mcvol	429.450	ml/mol	McGowan Method
pc	623.75	kPa	Joback Method
tb	875.36	K	Joback Method
tc	1077.81	K	Joback Method
tf	297.65 ± 2.00	K	NIST Webbook
vc	1.677	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1461.45	J/mol×K	875.36	Joback Method
cpg	1488.31	J/mol×K	909.10	Joback Method
cpg	1513.68	J/mol×K	942.84	Joback Method
cpg	1537.64	J/mol×K	976.58	Joback Method
cpg	1560.29	J/mol×K	1010.32	Joback Method
cpg	1581.71	J/mol×K	1044.06	Joback Method
cpg	1601.98	J/mol×K	1077.81	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C41961813&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume