triisooctylamine

Inchi: InChI=1S/C24H51N/c1-22(2)16-10-7-13-19-25(20-14-8-11-17-23(3)4)21-15-9-12-18-24(5
InchiKey: YKGBNAGNNUEZQC-UHFFFAOYSA-N
Formula: C24H51N
SMILES: CC(C)CCCCCN(CCCCCC(C)C)CCCCCC(C)C
Mol. weight [g/mol]: 353.67
CAS: 25549-16-0

Physical Properties

Property code	Value	Unit	Source
gf	254.66	kJ/mol	Joback Method
hf	-487.00	kJ/mol	Joback Method
hfus	50.37	kJ/mol	Joback Method
hvap	69.90	kJ/mol	Joback Method
log10ws	-7.71		Crippen Method
logp	7.938		Crippen Method
mcvol	359.000	ml/mol	McGowan Method
pc	816.33	kPa	Joback Method
tb	759.64	K	Joback Method
tc	932.68	K	Joback Method
tf	347.71	K	Joback Method
vc	1.379	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1133.70	J/mol×K	759.64	Joback Method
cpg	1157.05	J/mol×K	788.48	Joback Method
cpg	1179.29	J/mol×K	817.32	Joback Method
cpg	1200.46	J/mol×K	846.16	Joback Method
cpg	1220.60	J/mol×K	875.00	Joback Method
cpg	1239.77	J/mol×K	903.84	Joback Method
cpg	1257.99	J/mol×K	932.68	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=C25549160&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume