Ethyl octadecyl amine

Inchi: InChI=1S/C20H43N/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-4-2/h21H,3-20
InchiKey: YIADEKZPUNJEJT-UHFFFAOYSA-N
Formula: C20H43N
SMILES: CCCCCCCCCCCCCCCCCCCNCC
Mol. weight [g/mol]: 297.56

Physical Properties

Property code	Value	Unit	Source
gf	206.91	kJ/mol	Joback Method
hf	-402.66	kJ/mol	Joback Method
hfus	52.65	kJ/mol	Joback Method
hvap	66.55	kJ/mol	Joback Method
log10ws	-7.38		Crippen Method
logp	6.857		Crippen Method
mcvol	302.640	ml/mol	McGowan Method
pc	1024.00	kPa	Joback Method
rinpol	2153.00		NIST Webbook
tb	707.17	K	Joback Method
tc	873.43	K	Joback Method
tf	367.82	K	Joback Method
vc	1.190	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	911.14	J/mol×K	707.17	Joback Method
cpg	931.80	J/mol×K	734.88	Joback Method
cpg	951.55	J/mol×K	762.59	Joback Method
cpg	970.43	J/mol×K	790.30	Joback Method
cpg	988.46	J/mol×K	818.01	Joback Method
cpg	1005.68	J/mol×K	845.72	Joback Method
cpg	1022.11	J/mol×K	873.43	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R543107&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