1-Decanamine, N-ethyl

Inchi: InChI=1S/C12H27N/c1-3-5-6-7-8-9-10-11-12-13-4-2/h13H,3-12H2,1-2H3
InchiKey: RDXBZXWKSIEKKS-UHFFFAOYSA-N
Formula: C12H27N
SMILES: CCCCCCCCCCNCC
Mol. weight [g/mol]: 185.35

Physical Properties

Property code	Value	Unit	Source
gf	139.55	kJ/mol	Joback Method
hf	-237.54	kJ/mol	Joback Method
hfus	31.93	kJ/mol	Joback Method
hvap	48.74	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.737		Crippen Method
mcvol	189.920	ml/mol	McGowan Method
pc	1800.03	kPa	Joback Method
rinpol	1355.00		NIST Webbook
tb	524.13	K	Joback Method
tc	688.55	K	Joback Method
tf	277.66	K	Joback Method
vc	0.743	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	464.54	J/mol×K	524.13	Joback Method
cpg	481.38	J/mol×K	551.53	Joback Method
cpg	497.56	J/mol×K	578.94	Joback Method
cpg	513.09	J/mol×K	606.34	Joback Method
cpg	527.99	J/mol×K	633.75	Joback Method
cpg	542.27	J/mol×K	661.15	Joback Method
cpg	555.97	J/mol×K	688.55	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=R539990&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume