Benzamide, 2-fluoro-N-ethyl-N-2-ethylhexyl-

Inchi: InChI=1S/C17H26FNO/c1-4-7-10-14(5-2)13-19(6-3)17(20)15-11-8-9-12-16(15)18/h8-9,1
InchiKey: HSGBBYFJMBVONB-UHFFFAOYSA-N
Formula: C17H26FNO
SMILES: CCCCC(CC)CN(CC)C(=O)c1ccccc1F
Mol. weight [g/mol]: 279.39

Physical Properties

Property code	Value	Unit	Source
gf	-20.35	kJ/mol	Joback Method
hf	-415.59	kJ/mol	Joback Method
hfus	37.61	kJ/mol	Joback Method
hvap	63.96	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	4.504		Crippen Method
mcvol	239.950	ml/mol	McGowan Method
pc	1587.28	kPa	Joback Method
rinpol	2074.00		NIST Webbook
rinpol	2074.00		NIST Webbook
tb	685.16	K	Joback Method
tc	874.69	K	Joback Method
tf	388.28	K	Joback Method
vc	0.915	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	674.09	J/mol×K	685.16	Joback Method
cpg	691.59	J/mol×K	716.75	Joback Method
cpg	708.10	J/mol×K	748.34	Joback Method
cpg	723.67	J/mol×K	779.93	Joback Method
cpg	738.34	J/mol×K	811.51	Joback Method
cpg	752.15	J/mol×K	843.10	Joback Method
cpg	765.14	J/mol×K	874.69	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415378&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