Benzamide, 2-fluoro-N-ethyl-N-3-methylbutyl-

Inchi: InChI=1S/C14H20FNO/c1-4-16(10-9-11(2)3)14(17)12-7-5-6-8-13(12)15/h5-8,11H,4,9-10
InchiKey: LODRICGXFHKJBS-UHFFFAOYSA-N
Formula: C14H20FNO
SMILES: CCN(CCC(C)C)C(=O)c1ccccc1F
Mol. weight [g/mol]: 237.31

Physical Properties

Property code	Value	Unit	Source
gf	-45.61	kJ/mol	Joback Method
hf	-353.67	kJ/mol	Joback Method
hfus	29.85	kJ/mol	Joback Method
hvap	57.28	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	3.334		Crippen Method
mcvol	197.680	ml/mol	McGowan Method
pc	2025.41	kPa	Joback Method
rinpol	1970.00		NIST Webbook
rinpol	1970.00		NIST Webbook
tb	616.52	K	Joback Method
tc	811.90	K	Joback Method
tf	354.47	K	Joback Method
vc	0.748	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.14	J/mol×K	616.52	Joback Method
cpg	529.57	J/mol×K	649.08	Joback Method
cpg	545.06	J/mol×K	681.65	Joback Method
cpg	559.64	J/mol×K	714.21	Joback Method
cpg	573.35	J/mol×K	746.78	Joback Method
cpg	586.23	J/mol×K	779.34	Joback Method
cpg	598.32	J/mol×K	811.90	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415374&Units=SI

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