Benzamide, N,N-bis(2-ethylhexyl)-4-fluoro-

Inchi: InChI=1S/C23H38FNO/c1-5-9-11-19(7-3)17-25(18-20(8-4)12-10-6-2)23(26)21-13-15-22(
InchiKey: WEAWCSZDABMDLN-UHFFFAOYSA-N
Formula: C23H38FNO
SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)c1ccc(F)cc1
Mol. weight [g/mol]: 363.55

Physical Properties

Property code	Value	Unit	Source
gf	27.73	kJ/mol	Joback Method
hf	-544.71	kJ/mol	Joback Method
hfus	49.63	kJ/mol	Joback Method
hvap	76.93	kJ/mol	Joback Method
log10ws	-7.32		Crippen Method
logp	6.701		Crippen Method
mcvol	324.490	ml/mol	McGowan Method
pc	1055.51	kPa	Joback Method
rinpol	2304.00		NIST Webbook
rinpol	2304.00		NIST Webbook
tb	822.00	K	Joback Method
tc	1013.70	K	Joback Method
tf	440.90	K	Joback Method
vc	1.246	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1025.96	J/mol×K	822.00	Joback Method
cpg	1045.17	J/mol×K	853.95	Joback Method
cpg	1063.25	J/mol×K	885.90	Joback Method
cpg	1080.27	J/mol×K	917.85	Joback Method
cpg	1096.28	J/mol×K	949.80	Joback Method
cpg	1111.35	J/mol×K	981.75	Joback Method
cpg	1125.52	J/mol×K	1013.70	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308307&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