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

Inchi: InChI=1S/C23H38ClNO/c1-5-9-11-19(7-3)17-25(18-20(8-4)12-10-6-2)23(26)21-13-15-22
InchiKey: MMHNMAOTACRUMR-UHFFFAOYSA-N
Formula: C23H38ClNO
SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]: 380.01

Physical Properties

Property code	Value	Unit	Source
gf	210.61	kJ/mol	Joback Method
hf	-364.34	kJ/mol	Joback Method
hfus	50.75	kJ/mol	Joback Method
hvap	82.13	kJ/mol	Joback Method
log10ws	-7.68		Crippen Method
logp	7.215		Crippen Method
mcvol	334.960	ml/mol	McGowan Method
pc	1061.02	kPa	Joback Method
rinpol	2438.00		NIST Webbook
rinpol	2438.00		NIST Webbook
tb	860.16	K	Joback Method
tc	1060.88	K	Joback Method
tf	470.23	K	Joback Method
vc	1.276	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1050.47	J/mol×K	860.16	Joback Method
cpg	1069.02	J/mol×K	893.61	Joback Method
cpg	1086.43	J/mol×K	927.07	Joback Method
cpg	1102.76	J/mol×K	960.52	Joback Method
cpg	1118.09	J/mol×K	993.97	Joback Method
cpg	1132.48	J/mol×K	1027.43	Joback Method
cpg	1146.00	J/mol×K	1060.88	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=U308589&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