Benzamide, N,N-bis(2-ethylhexyl)-3-methoxy-

Inchi: InChI=1S/C24H41NO2/c1-6-10-13-20(8-3)18-25(19-21(9-4)14-11-7-2)24(26)22-15-12-16
InchiKey: OMTASSMHRSLDSP-UHFFFAOYSA-N
Formula: C24H41NO2
SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)c1cccc(OC)c1
Mol. weight [g/mol]: 375.59

Physical Properties

Property code	Value	Unit	Source
gf	125.96	kJ/mol	Joback Method
hf	-501.46	kJ/mol	Joback Method
hfus	50.33	kJ/mol	Joback Method
hvap	82.38	kJ/mol	Joback Method
log10ws	-7.11		Crippen Method
logp	6.570		Crippen Method
mcvol	342.680	ml/mol	McGowan Method
pc	1010.37	kPa	Joback Method
rinpol	2531.00		NIST Webbook
rinpol	2531.00		NIST Webbook
tb	868.03	K	Joback Method
tc	1066.97	K	Joback Method
tf	473.81	K	Joback Method
vc	1.302	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1112.43	J/mol×K	868.03	Joback Method
cpg	1131.85	J/mol×K	901.19	Joback Method
cpg	1150.03	J/mol×K	934.34	Joback Method
cpg	1167.02	J/mol×K	967.50	Joback Method
cpg	1182.87	J/mol×K	1000.66	Joback Method
cpg	1197.64	J/mol×K	1033.81	Joback Method
cpg	1211.39	J/mol×K	1066.97	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=U308151&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