Benzamide, 4-methoxy-N-butyl-N-2-ethylhexyl-

Inchi: InChI=1S/C20H33NO2/c1-5-8-10-17(7-3)16-21(15-9-6-2)20(22)18-11-13-19(23-4)14-12-
InchiKey: MIYWIBVFCQFICA-UHFFFAOYSA-N
Formula: C20H33NO2
SMILES: CCCCC(CC)CN(CCCC)C(=O)c1ccc(OC)cc1
Mol. weight [g/mol]: 319.48

Physical Properties

Property code	Value	Unit	Source
gf	94.72	kJ/mol	Joback Method
hf	-413.62	kJ/mol	Joback Method
hfus	43.49	kJ/mol	Joback Method
hvap	73.86	kJ/mol	Joback Method
log10ws	-5.68		Crippen Method
logp	5.154		Crippen Method
mcvol	286.320	ml/mol	McGowan Method
pc	1303.29	kPa	Joback Method
rinpol	2956.00		NIST Webbook
rinpol	2956.00		NIST Webbook
tb	776.95	K	Joback Method
tc	969.88	K	Joback Method
tf	443.73	K	Joback Method
vc	1.083	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	868.90	J/mol×K	776.95	Joback Method
cpg	887.34	J/mol×K	809.10	Joback Method
cpg	904.68	J/mol×K	841.26	Joback Method
cpg	920.98	J/mol×K	873.41	Joback Method
cpg	936.26	J/mol×K	905.57	Joback Method
cpg	950.57	J/mol×K	937.72	Joback Method
cpg	963.95	J/mol×K	969.88	Joback Method

Sources

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=U415910&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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