Benzamide, 4-methoxy-N-butyl-N-propyl-

Inchi: InChI=1S/C15H23NO2/c1-4-6-12-16(11-5-2)15(17)13-7-9-14(18-3)10-8-13/h7-10H,4-6,1
InchiKey: RIFWXAVTBJRANR-UHFFFAOYSA-N
Formula: C15H23NO2
SMILES: CCCCN(CCC)C(=O)c1ccc(OC)cc1
Mol. weight [g/mol]: 249.35

Physical Properties

Property code	Value	Unit	Source
gf	55.06	kJ/mol	Joback Method
hf	-305.14	kJ/mol	Joback Method
hfus	34.07	kJ/mol	Joback Method
hvap	63.12	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.347		Crippen Method
mcvol	215.870	ml/mol	McGowan Method
pc	1893.65	kPa	Joback Method
rinpol	2816.00		NIST Webbook
tb	662.99	K	Joback Method
tc	859.23	K	Joback Method
tf	402.38	K	Joback Method
vc	0.809	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	585.34	J/mol×K	662.99	Joback Method
cpg	602.17	J/mol×K	695.70	Joback Method
cpg	618.05	J/mol×K	728.40	Joback Method
cpg	633.01	J/mol×K	761.11	Joback Method
cpg	647.08	J/mol×K	793.82	Joback Method
cpg	660.29	J/mol×K	826.53	Joback Method
cpg	672.67	J/mol×K	859.23	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=U415903&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