

Benzamide, 4-methoxy-N-butyl-N-ethyl-

Inchi:	InChI=1S/C14H21NO2/c1-4-6-11-15(5-2)14(16)12-7-9-13(17-3)10-8-12/h7-10H,4-6,11H2
InchiKey:	PYFBEXAGXADZGP-UHFFFAOYSA-N
Formula:	C14H21NO2
SMILES:	CCCCN(CC)C(=O)c1ccc(OC)cc1
Mol. weight [g/mol]:	235.32

Physical Properties

Property code	Value	Unit	Source
gf	46.64	kJ/mol	Joback Method
hf	-284.50	kJ/mol	Joback Method
hfus	31.48	kJ/mol	Joback Method
hvap	60.90	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	2.957		Crippen Method
mcvol	201.780	ml/mol	McGowan Method
pc	2062.36	kPa	Joback Method
rinpol	2306.00		NIST Webbook
rinpol	2306.00		NIST Webbook
tb	640.11	K	Joback Method
tc	838.70	K	Joback Method
tf	391.11	K	Joback Method
vc	0.753	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	532.25	J/mol×K	640.11	Joback Method
cpg	548.68	J/mol×K	673.21	Joback Method
cpg	564.18	J/mol×K	706.31	Joback Method
cpg	578.78	J/mol×K	739.41	Joback Method
cpg	592.51	J/mol×K	772.51	Joback Method
cpg	605.40	J/mol×K	805.60	Joback Method
cpg	617.48	J/mol×K	838.70	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=U415902&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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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