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

Inchi: InChI=1S/C15H23NO/c1-4-7-12-16(6-3)15(17)14-10-8-13(5-2)9-11-14/h8-11H,4-7,12H2,
InchiKey: IRDXXMRNNRQMED-UHFFFAOYSA-N
Formula: C15H23NO
SMILES: CCCCN(CC)C(=O)c1ccc(CC)cc1
Mol. weight [g/mol]: 233.35

Physical Properties

Property code	Value	Unit	Source
gf	160.06	kJ/mol	Joback Method
hf	-172.92	kJ/mol	Joback Method
hfus	32.88	kJ/mol	Joback Method
hvap	60.71	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.511		Crippen Method
mcvol	210.000	ml/mol	McGowan Method
pc	1921.98	kPa	Joback Method
rinpol	2204.00		NIST Webbook
tb	640.57	K	Joback Method
tc	838.24	K	Joback Method
tf	380.15	K	Joback Method
vc	0.791	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	557.07	J/mol×K	640.57	Joback Method
cpg	574.31	J/mol×K	673.52	Joback Method
cpg	590.57	J/mol×K	706.46	Joback Method
cpg	605.88	J/mol×K	739.41	Joback Method
cpg	620.29	J/mol×K	772.35	Joback Method
cpg	633.84	J/mol×K	805.30	Joback Method
cpg	646.58	J/mol×K	838.24	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=U415886&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