2-Aminoacetanilide, N-ethyl-N'-butyl

Inchi: InChI=1S/C14H22N2O/c1-4-6-11-15-13-9-7-8-10-14(13)16(5-2)12(3)17/h7-10,15H,4-6,1
InchiKey: KUNKKXVMBOWKEC-UHFFFAOYSA-N
Formula: C14H22N2O
SMILES: CCCCNc1ccccc1N(CC)C(C)=O
Mol. weight [g/mol]: 234.34

Physical Properties

Property code	Value	Unit	Source
gf	241.03	kJ/mol	Joback Method
hf	-98.81	kJ/mol	Joback Method
hfus	35.39	kJ/mol	Joback Method
hvap	64.92	kJ/mol	Joback Method
log10ws	-3.26		Crippen Method
logp	3.271		Crippen Method
mcvol	205.890	ml/mol	McGowan Method
pc	2119.73	kPa	Joback Method
rinpol	1758.00		NIST Webbook
tb	667.86	K	Joback Method
tc	868.55	K	Joback Method
tf	421.54	K	Joback Method
vc	0.770	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	560.74	J/mol×K	667.86	Joback Method
cpg	576.97	J/mol×K	701.31	Joback Method
cpg	592.24	J/mol×K	734.76	Joback Method
cpg	606.57	J/mol×K	768.21	Joback Method
cpg	620.02	J/mol×K	801.66	Joback Method
cpg	632.63	J/mol×K	835.11	Joback Method
cpg	644.44	J/mol×K	868.55	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=R548751&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