Formanilide, n-benzyl-

Inchi: InChI=1S/C14H13NO/c16-12-15(14-9-5-2-6-10-14)11-13-7-3-1-4-8-13/h1-10,12H,11H2
InchiKey: CEIHCMMUIHDOQQ-UHFFFAOYSA-N
Formula: C14H13NO
SMILES: O=CN(Cc1ccccc1)c1ccccc1
Mol. weight [g/mol]: 211.26
CAS: 16350-99-5

Physical Properties

Property code	Value	Unit	Source
gf	303.08	kJ/mol	Joback Method
hf	122.72	kJ/mol	Joback Method
hfus	25.41	kJ/mol	Joback Method
hvap	60.07	kJ/mol	Joback Method
log10ws	-3.26		Crippen Method
logp	2.850		Crippen Method
mcvol	172.150	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
tb	634.18	K	Joback Method
tc	871.27	K	Joback Method
tf	374.85	K	Joback Method
vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	428.61	J/mol×K	634.18	Joback Method
cpg	444.41	J/mol×K	673.69	Joback Method
cpg	458.91	J/mol×K	713.21	Joback Method
cpg	472.19	J/mol×K	752.72	Joback Method
cpg	484.35	J/mol×K	792.24	Joback Method
cpg	495.48	J/mol×K	831.75	Joback Method
cpg	505.66	J/mol×K	871.27	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=C16350995&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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