Urea, 1-(benzyloxy)-3-phenyl-

Inchi: InChI=1S/C14H14N2O2/c17-14(15-13-9-5-2-6-10-13)16-18-11-12-7-3-1-4-8-12/h1-10H,1
InchiKey: AGVZBCZHWKBGBO-UHFFFAOYSA-N
Formula: C14H14N2O2
SMILES: O=C(NOCc1ccccc1)Nc1ccccc1
Mol. weight [g/mol]: 242.27
CAS: 33026-77-6

Physical Properties

Property code	Value	Unit	Source
gf	236.68	kJ/mol	Joback Method
hf	2.91	kJ/mol	Joback Method
hfus	33.08	kJ/mol	Joback Method
hvap	73.34	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	2.940		Crippen Method
mcvol	188.000	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
tb	749.71	K	Joback Method
tc	986.99	K	Joback Method
tf	477.86	K	Joback Method
vc	0.698	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	517.76	J/mol×K	749.71	Joback Method
cpg	531.45	J/mol×K	789.26	Joback Method
cpg	543.96	J/mol×K	828.80	Joback Method
cpg	555.34	J/mol×K	868.35	Joback Method
cpg	565.65	J/mol×K	907.90	Joback Method
cpg	574.95	J/mol×K	947.45	Joback Method
cpg	583.30	J/mol×K	986.99	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=C33026776&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume