2-Phenoxybenzhydrazide

Inchi: InChI=1S/C13H12N2O2/c14-15-13(16)11-8-4-5-9-12(11)17-10-6-2-1-3-7-10/h1-9H,14H2
InchiKey: PIMAJOVNMMNVCZ-UHFFFAOYSA-N
Formula: C13H12N2O2
SMILES: NNC(=O)c1ccccc1Oc1ccccc1
Mol. weight [g/mol]: 228.25
CAS: 43038-37-5

Physical Properties

Property code	Value	Unit	Source
gf	195.69	kJ/mol	Joback Method
hf	-7.60	kJ/mol	Joback Method
hfus	30.20	kJ/mol	Joback Method
hvap	75.98	kJ/mol	Joback Method
log10ws	-3.46		Crippen Method
logp	2.082		Crippen Method
mcvol	173.910	ml/mol	McGowan Method
pc	3448.03	kPa	Joback Method
tb	754.17	K	Joback Method
tc	1004.68	K	Joback Method
tf	509.71	K	Joback Method
vc	0.635	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.43	J/mol×K	754.17	Joback Method
cpg	484.12	J/mol×K	795.92	Joback Method
cpg	495.64	J/mol×K	837.67	Joback Method
cpg	506.04	J/mol×K	879.43	Joback Method
cpg	515.38	J/mol×K	921.18	Joback Method
cpg	523.71	J/mol×K	962.93	Joback Method
cpg	531.08	J/mol×K	1004.68	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C43038375&Units=SI
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

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