2-Ethoxybenzhydrazide

Other names: o-Ethoxy benzhydrazide
Inchi: InChI=1S/C9H12N2O2/c1-2-13-8-6-4-3-5-7(8)9(12)11-10/h3-6H,2,10H2,1H3,(H,11,12)
InchiKey: LADUENYEZHMRQH-UHFFFAOYSA-N
Formula: C9H12N2O2
SMILES: CCOc1ccccc1C(=O)NN
Mol. weight [g/mol]: 180.20
CAS: 21018-13-3

Physical Properties

Property code	Value	Unit	Source
gf	49.60	kJ/mol	Joback Method
hf	-161.57	kJ/mol	Joback Method
hfus	25.80	kJ/mol	Joback Method
hvap	64.80	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	0.689		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	3673.09	kPa	Joback Method
tb	635.97	K	Joback Method
tc	860.95	K	Joback Method
tf	438.21	K	Joback Method
vc	0.519	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	356.51	J/mol×K	635.97	Joback Method
cpg	368.64	J/mol×K	673.47	Joback Method
cpg	379.97	J/mol×K	710.96	Joback Method
cpg	390.52	J/mol×K	748.46	Joback Method
cpg	400.31	J/mol×K	785.96	Joback Method
cpg	409.35	J/mol×K	823.45	Joback Method
cpg	417.67	J/mol×K	860.95	Joback Method

Sources

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=C21018133&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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