4-methoxybenzohydrazide

Inchi: InChI=1S/C8H10N2O2/c1-12-7-4-2-6(3-5-7)8(11)10-9/h2-5H,9H2,1H3,(H,10,11)
InchiKey: REKQLYUAUXYJSZ-UHFFFAOYSA-N
Formula: C8H10N2O2
SMILES: COc1ccc(C(=O)NN)cc1
Mol. weight [g/mol]: 166.18

Physical Properties

Property code	Value	Unit	Source
gf	41.18	kJ/mol	Joback Method
hf	-140.93	kJ/mol	Joback Method
hfus	23.21	kJ/mol	Joback Method
hvap	62.57	kJ/mol	Joback Method
log10ws	-1.15		Aqueous Solubility Prediction Method
logp	0.299		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
tb	613.09	K	Joback Method
tc	842.43	K	Joback Method
tf	426.94	K	Joback Method
vc	0.464	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.09	J/mol×K	613.09	Joback Method
cpg	320.39	J/mol×K	651.31	Joback Method
cpg	330.95	J/mol×K	689.54	Joback Method
cpg	340.78	J/mol×K	727.76	Joback Method
cpg	349.90	J/mol×K	765.98	Joback Method
cpg	358.30	J/mol×K	804.21	Joback Method
cpg	366.02	J/mol×K	842.43	Joback Method

Sources

Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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