

3,4-Dimethoxyphenylacethydrazide

Other names:	3,4-Dimethoxyphenyl acetic hydrazide Homoveratric hydrazide 3,4-Dimethoxyphenylacetic acid hydrazide
Inchi:	InChI=1S/C10H14N2O3/c1-14-8-4-3-7(5-9(8)15-2)6-10(13)12-11/h3-5H,6,11H2,1-2H3,(H
InchiKey:	HRMXYTRKEOUMNG-UHFFFAOYSA-N
Formula:	C10H14N2O3
SMILES:	COc1ccc(CC(=O)NN)cc1OC
Mol. weight [g/mol]:	210.23
CAS:	60075-23-2

Physical Properties

Property code	Value	Unit	Source
gf	-56.61	kJ/mol	Joback Method
hf	-325.90	kJ/mol	Joback Method
hfus	29.19	kJ/mol	Joback Method
hvap	70.10	kJ/mol	Joback Method
log10ws	-1.90		Crippen Method
logp	0.236		Crippen Method
mcvol	161.270	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
tb	686.25	K	Joback Method
tc	905.34	K	Joback Method
tf	484.23	K	Joback Method
vc	0.594	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	428.80	J/molxK	686.25	Joback Method
cpg	441.24	J/molxK	722.77	Joback Method
cpg	452.89	J/molxK	759.28	Joback Method
cpg	463.74	J/molxK	795.80	Joback Method
cpg	473.79	J/molxK	832.31	Joback Method
cpg	483.03	J/molxK	868.83	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=C60075232&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mccvol:	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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