

phthalamide

Inchi:	InChI=1S/C8H7NO2/c10-7-5-3-1-2-4-6(5)8(11)9-7/h1-6H,(H,9,10,11)
InchiKey:	RDHHZPRHIKNBBI-UHFFFAOYSA-N
Formula:	C8H7NO2
SMILES:	O=C1NC(=O)C2C=CC=CC12
Mol. weight [g/mol]:	149.15

Physical Properties

Property code	Value	Unit	Source
gf	4.13	kJ/mol	Joback Method
hf	-203.36	kJ/mol	Joback Method
hfus	17.50	kJ/mol	Joback Method
hvap	49.58	kJ/mol	Joback Method
log10ws	-2.93		Aqueous Solubility Prediction Method
log10ws	-2.93		Estimated Solubility Method
logp	0.001		Crippen Method
mcvol	106.380	ml/mol	McGowan Method
pc	4540.80	kPa	Joback Method
tb	591.24	K	Joback Method
tc	856.34	K	Joback Method
tf	448.23	K	Joback Method
vc	0.397	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	264.61	J/molxK	591.24	Joback Method
cpg	279.63	J/molxK	635.42	Joback Method
cpg	293.67	J/molxK	679.61	Joback Method
cpg	306.72	J/molxK	723.79	Joback Method
cpg	318.73	J/molxK	767.97	Joback Method
cpg	329.69	J/molxK	812.16	Joback Method
cpg	339.55	J/molxK	856.34	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	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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