1-(Chloroacetyl)-2-(p-chlorobenzoyl) hydrazine

Inchi: InChI=1S/C9H8Cl2N2O2/c10-5-8(14)12-13-9(15)6-1-3-7(11)4-2-6/h1-4H,5H2,(H,12,14)(H
InchiKey: SNTDMGMZOXNPPJ-UHFFFAOYSA-N
Formula: C9H8Cl2N2O2
SMILES: O=C(CCl)NNC(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]: 247.08
CAS: 50677-27-5

Physical Properties

Property code	Value	Unit	Source
gf	24.76	kJ/mol	Joback Method
hf	-153.73	kJ/mol	Joback Method
hfus	34.51	kJ/mol	Joback Method
hvap	73.70	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	1.340		Crippen Method
mcvol	161.490	ml/mol	McGowan Method
pc	3509.58	kPa	Joback Method
tb	719.92	K	Joback Method
tc	952.03	K	Joback Method
tf	495.15	K	Joback Method
vc	0.612	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	379.83	J/mol×K	719.92	Joback Method
cpg	389.06	J/mol×K	758.61	Joback Method
cpg	397.50	J/mol×K	797.29	Joback Method
cpg	405.19	J/mol×K	835.98	Joback Method
cpg	412.18	J/mol×K	874.66	Joback Method
cpg	418.49	J/mol×K	913.35	Joback Method
cpg	424.19	J/mol×K	952.03	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C50677275&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