2,2,2-Trichloro-n'-(4-chlorobenzoyl)acetohydrazid

Inchi: InChI=1S/C9H6Cl4N2O2/c10-6-3-1-5(2-4-6)7(16)14-15-8(17)9(11,12)13/h1-4H,(H,14,16)
InchiKey: JQIUHCMAAQLMOY-UHFFFAOYSA-N
Formula: C9H6Cl4N2O2
SMILES: O=C(NNC(=O)C(Cl)(Cl)Cl)c1ccc(Cl)cc1
Mol. weight [g/mol]: 315.97
CAS: 64968-99-6

Physical Properties

Property code	Value	Unit	Source
gf	3.74	kJ/mol	Joback Method
hf	-193.96	kJ/mol	Joback Method
hfus	35.49	kJ/mol	Joback Method
hvap	81.17	kJ/mol	Joback Method
log10ws	-4.44		Crippen Method
logp	2.471		Crippen Method
mcvol	185.970	ml/mol	McGowan Method
pc	3291.59	kPa	Joback Method
tb	791.55	K	Joback Method
tc	1040.90	K	Joback Method
tf	557.41	K	Joback Method
vc	0.699	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	419.33	J/mol×K	791.55	Joback Method
cpg	426.51	J/mol×K	833.11	Joback Method
cpg	432.92	J/mol×K	874.67	Joback Method
cpg	438.64	J/mol×K	916.23	Joback Method
cpg	443.77	J/mol×K	957.78	Joback Method
cpg	448.38	J/mol×K	999.34	Joback Method
cpg	452.57	J/mol×K	1040.90	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C64968996&Units=SI

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