Acetamide, n-(p-hydroxyphenyl)-, 2,2,2-trichloroethyl carbonate

Inchi: InChI=1S/C11H10Cl3NO4/c1-7(16)15-8-2-4-9(5-3-8)19-10(17)18-6-11(12,13)14/h2-5H,6

InchiKey: GZCRJHAVDRUHET-UHFFFAOYSA-N

Formula: C11H10Cl3NO4

SMILES: CC(=O)Nc1ccc(OC(=O)OCC(Cl)(Cl)Cl)cc1

Mol. weight [g/mol]: 326.56

CAS: 790-90-9

Physical Properties

Property code	Value	Unit	Source
gf	-266.88	kJ/mol	Joback Method
hf	-537.41	kJ/mol	Joback Method
hfus	33.75	kJ/mol	Joback Method
hvap	79.62	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.531		Crippen Method
mcvol	203.670	ml/mol	McGowan Method
pc	2643.39	kPa	Joback Method
tb	794.55	K	Joback Method
tc	1028.72	K	Joback Method
tf	541.83	K	Joback Method
vc	0.762	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	504.18	J/mol×K	794.55	Joback Method
cpg	513.55	J/mol×K	833.58	Joback Method
cpg	521.98	J/mol×K	872.61	Joback Method
cpg	529.52	J/mol×K	911.63	Joback Method
cpg	536.20	J/mol×K	950.66	Joback Method
cpg	542.06	J/mol×K	989.69	Joback Method
cpg	547.13	J/mol×K	1028.72	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C790909&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