2,2-dichloro-N,N-di(prop-2-enyl)acetamide

Inchi: InChI=1S/C8H11Cl2NO/c1-3-5-11(6-4-2)8(12)7(9)10/h3-4,7H,1-2,5-6H2
InchiKey: YRMLFORXOOIJDR-UHFFFAOYSA-N
Formula: C8H11Cl2NO
SMILES: C=CCN(CC=C)C(=O)C(Cl)Cl
Mol. weight [g/mol]: 208.09

Physical Properties

Property code	Value	Unit	Source
gf	147.72	kJ/mol	Joback Method
hf	-39.40	kJ/mol	Joback Method
hfus	23.41	kJ/mol	Joback Method
hvap	49.23	kJ/mol	Joback Method
log10ws	-1.62		Aqueous Solubility Prediction Method
logp	1.991		Crippen Method
mcvol	151.010	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
tb	516.53	K	Joback Method
tc	713.05	K	Joback Method
tf	278.65	K	Aqueous Solubility Prediction Method
vc	0.561	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.79	J/mol×K	516.53	Joback Method
cpg	319.10	J/mol×K	549.28	Joback Method
cpg	329.71	J/mol×K	582.04	Joback Method
cpg	339.67	J/mol×K	614.79	Joback Method
cpg	349.00	J/mol×K	647.55	Joback Method
cpg	357.74	J/mol×K	680.30	Joback Method
cpg	365.92	J/mol×K	713.05	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
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
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

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