Acetamide, N-(2-iodo-4-methylphenyl)-2,2-dichloro-

Inchi: InChI=1S/C9H8Cl2INO/c1-5-2-3-7(6(12)4-5)13-9(14)8(10)11/h2-4,8H,1H3,(H,13,14)
InchiKey: LEKHCEXEJRKGJA-UHFFFAOYSA-N
Formula: C9H8Cl2INO
SMILES: Cc1ccc(NC(=O)C(Cl)Cl)c(I)c1
Mol. weight [g/mol]: 343.98

Physical Properties

Property code	Value	Unit	Source
gf	110.34	kJ/mol	Joback Method
hf	-34.50	kJ/mol	Joback Method
hfus	28.30	kJ/mol	Joback Method
hvap	70.16	kJ/mol	Joback Method
log10ws	-4.21		Crippen Method
logp	3.342		Crippen Method
mcvol	175.760	ml/mol	McGowan Method
pc	3110.57	kPa	Joback Method
rinpol	2000.00		NIST Webbook
tb	713.56	K	Joback Method
tc	973.25	K	Joback Method
tf	448.14	K	Joback Method
vc	0.652	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.62	J/mol×K	713.56	Joback Method
cpg	372.02	J/mol×K	756.84	Joback Method
cpg	380.59	J/mol×K	800.12	Joback Method
cpg	388.40	J/mol×K	843.41	Joback Method
cpg	395.49	J/mol×K	886.69	Joback Method
cpg	401.95	J/mol×K	929.97	Joback Method
cpg	407.83	J/mol×K	973.25	Joback Method

Sources

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=U307304&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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