Acetamide, N-(2,5-dimethoxyphenyl)-2,2-dichloro-

Inchi: InChI=1S/C10H11Cl2NO3/c1-15-6-3-4-8(16-2)7(5-6)13-10(14)9(11)12/h3-5,9H,1-2H3,(H

InchiKey: MRFYBJFXENFYEJ-UHFFFAOYSA-N

Formula: C10H11Cl2NO3

SMILES: COc1ccc(OC)c(NC(=O)C(Cl)Cl)c1

Mol. weight [g/mol]: 264.11

Physical Properties

Property code	Value	Unit	Source
gf	-149.36	kJ/mol	Joback Method
hf	-396.45	kJ/mol	Joback Method
hfus	28.86	kJ/mol	Joback Method
hvap	67.84	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	2.446		Crippen Method
mcvol	175.770	ml/mol	McGowan Method
pc	2767.17	kPa	Joback Method
rinpol	1889.00		NIST Webbook
tb	688.14	K	Joback Method
tc	911.26	K	Joback Method
tf	445.81	K	Joback Method
vc	0.656	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	419.73	J/mol×K	688.14	Joback Method
cpg	431.11	J/mol×K	725.33	Joback Method
cpg	441.70	J/mol×K	762.51	Joback Method
cpg	451.50	J/mol×K	799.70	Joback Method
cpg	460.51	J/mol×K	836.89	Joback Method
cpg	468.73	J/mol×K	874.07	Joback Method
cpg	476.14	J/mol×K	911.26	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=U307302&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
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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