Acetamide, 2-chloro-N-(2,6-dimethylphenyl)-N-(2-methoxyeth

Other names: Dimethachloro
Dimethachlor
2-chloro-N-(2,6-dimethylphenyl)-N-(2-methoxyethyl)acetamide

Inchi: InChI=1S/C13H18ClNO2/c1-10-5-4-6-11(2)13(10)15(7-8-17-3)12(16)9-14/h4-6H,7-9H2,1

InchiKey: SCCDDNKJYDZXMM-UHFFFAOYSA-N

Formula: C13H18ClNO2

SMILES: COCCN(C(=O)CCl)c1c(C)cccc1C

Mol. weight [g/mol]: 255.74

CAS: 50563-36-5

Physical Properties

Property code	Value	Unit	Source
gf	16.66	kJ/mol	Joback Method
hf	-291.07	kJ/mol	Joback Method
hfus	32.69	kJ/mol	Joback Method
hvap	63.72	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	2.522		Crippen Method
mcvol	199.930	ml/mol	McGowan Method
pc	2147.32	kPa	Joback Method
tb	659.64	K	Joback Method
tc	865.51	K	Joback Method
tf	422.28	K	Joback Method
vc	0.747	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	508.71	J/mol×K	659.64	Joback Method
cpg	523.47	J/mol×K	693.95	Joback Method
cpg	537.35	J/mol×K	728.26	Joback Method
cpg	550.38	J/mol×K	762.57	Joback Method
cpg	562.58	J/mol×K	796.88	Joback Method
cpg	573.98	J/mol×K	831.19	Joback Method

cpg	584.60	J/mol×K	865.51	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=C50563365&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume