Carbamic acid, dimethyl-, 2,4-dichlorophenyl ester

Other names: 2,6-Dichlorophenyl-N,N-dimethylcarbamate
2,4-Dichlorophenyl-N,N-dimethyl carbamate
Inchi: InChI=1S/C9H9Cl2NO2/c1-12(2)9(13)14-8-4-3-6(10)5-7(8)11/h3-5H,1-2H3
InchiKey: ZYYOAHAWVWGMJY-UHFFFAOYSA-N
Formula: C9H9Cl2NO2
SMILES: CN(C)C(=O)Oc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 234.08
CAS: 6639-32-3

Physical Properties

Property code	Value	Unit	Source
gf	-28.95	kJ/mol	Joback Method
hf	-224.25	kJ/mol	Joback Method
hfus	26.53	kJ/mol	Joback Method
hvap	59.20	kJ/mol	Joback Method
log10ws	-3.12		Crippen Method
logp	3.054		Crippen Method
mcvol	155.810	ml/mol	McGowan Method
pc	3049.04	kPa	Joback Method
tb	605.55	K	Joback Method
tc	829.17	K	Joback Method
tf	407.12	K	Joback Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	337.87	J/mol×K	605.55	Joback Method
cpg	349.00	J/mol×K	642.82	Joback Method
cpg	359.38	J/mol×K	680.09	Joback Method
cpg	369.05	J/mol×K	717.36	Joback Method
cpg	378.03	J/mol×K	754.63	Joback Method
cpg	386.33	J/mol×K	791.90	Joback Method
cpg	393.97	J/mol×K	829.17	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6639323&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