Dichloroacetamide, N,N-dibutyl-

Inchi: InChI=1S/C10H19Cl2NO/c1-3-5-7-13(8-6-4-2)10(14)9(11)12/h9H,3-8H2,1-2H3
InchiKey: ADUKNAPXUVHFPK-UHFFFAOYSA-N
Formula: C10H19Cl2NO
SMILES: CCCCN(CCCC)C(=O)C(Cl)Cl
Mol. weight [g/mol]: 240.17

Physical Properties

Property code	Value	Unit	Source
gf	-11.12	kJ/mol	Joback Method
hf	-331.54	kJ/mol	Joback Method
hfus	31.15	kJ/mol	Joback Method
hvap	55.03	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.219		Crippen Method
mcvol	187.790	ml/mol	McGowan Method
pc	2098.42	kPa	Joback Method
rinpol	1522.00		NIST Webbook
tb	568.93	K	Joback Method
tc	753.55	K	Joback Method
tf	329.70	K	Joback Method
vc	0.712	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.17	J/mol×K	568.93	Joback Method
cpg	452.25	J/mol×K	599.70	Joback Method
cpg	465.61	J/mol×K	630.47	Joback Method
cpg	478.27	J/mol×K	661.24	Joback Method
cpg	490.26	J/mol×K	692.01	Joback Method
cpg	501.61	J/mol×K	722.78	Joback Method
cpg	512.35	J/mol×K	753.55	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=U308632&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