Dichloroacetylene

Inchi: InChI=1S/C2Cl2/c3-1-2-4
InchiKey: ZMJOVJSTYLQINE-UHFFFAOYSA-N
Formula: C2Cl2
SMILES: ClC#CCl
Mol. weight [g/mol]: 94.93
CAS: 20394-25-6

Physical Properties

Property code	Value	Unit	Source
gf	144.90	kJ/mol	Joback Method
hf	156.21	kJ/mol	Joback Method
hfus	12.45	kJ/mol	Joback Method
hvap	30.97	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	1.382		Crippen Method
mcvol	54.920	ml/mol	McGowan Method
pc	5704.58	kPa	Joback Method
rinpol	491.00		NIST Webbook
tb	329.02	K	Joback Method
tc	541.60	K	Joback Method
tf	278.24	K	Joback Method
vc	0.207	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	60.06	J/mol×K	329.02	Joback Method
cpg	61.40	J/mol×K	364.45	Joback Method
cpg	62.67	J/mol×K	399.88	Joback Method
cpg	63.90	J/mol×K	435.31	Joback Method
cpg	65.06	J/mol×K	470.74	Joback Method
cpg	66.18	J/mol×K	506.17	Joback Method
cpg	67.25	J/mol×K	541.60	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=C20394256&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