Methane-D2-, dichloro-

Other names:	Methylene chloride-D2
	CD2Cl2
	dichloro(2H2)methane
	Dichloromethane-d2
Inchi:	InChI=1S/CH2Cl2/c2-1-3/h1H2/i1D2
InchiKey:	YMWUJEATGCHHMB-DICFDUPASA-N
Formula:	CD2Cl2
SMILES:	ClCCl
Mol. weight [g/mol]:	86.94
CAS:	1665-00-5

Physical Properties

Property code	Value	Unit	Source
gf	-66.32	kJ/mol	Joback Method
hf	-95.45	kJ/mol	Joback Method
hfus	6.74	kJ/mol	Joback Method
hvap	26.59	kJ/mol	Joback Method
log10ws	-1.04		Crippen Method
logp	1.421		Crippen Method
mcvol	49.430	ml/mol	McGowan Method
pc	5190.64	kPa	Joback Method
tb	297.14	K	Joback Method
tc	478.55	K	Joback Method
tf	160.87	K	Joback Method
vc	0.190	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	55.35	J/mol×K	297.14	Joback Method
cpg	57.56	J/mol×K	327.38	Joback Method
cpg	59.68	J/mol×K	357.61	Joback Method
cpg	61.71	J/mol×K	387.85	Joback Method
cpg	63.64	J/mol×K	418.08	Joback Method

cpg	65.49	J/mol×K	448.32	Joback Method
cpg	67.25	J/mol×K	478.55	Joback Method
dvisc	0.0026264	Pa×s	160.87	Joback Method
dvisc	0.0014784	Pa×s	183.58	Joback Method
dvisc	0.0009444	Pa×s	206.29	Joback Method
dvisc	0.0006594	Pa×s	229.00	Joback Method
dvisc	0.0004912	Pa×s	251.72	Joback Method
dvisc	0.0003842	Pa×s	274.43	Joback Method
dvisc	0.0003120	Pa×s	297.14	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1665005&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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

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