Methane, oxybis[dichloro-

Other names: Ether, bis(dichloromethyl)
Bis(dichloromethyl) ether
Methane, oxybis*dichloro-
Inchi: InChI=1S/C2H2Cl4O/c3-1(4)7-2(5)6/h1-2H
InchiKey: HKYGSMOFSFOEIP-UHFFFAOYSA-N
Formula: C2H2Cl4O
SMILES: ClC(Cl)OC(Cl)Cl
Mol. weight [g/mol]: 183.85
CAS: 20524-86-1

Physical Properties

Property code	Value	Unit	Source
gf	-191.64	kJ/mol	Joback Method
hf	-290.35	kJ/mol	Joback Method
hfus	11.87	kJ/mol	Joback Method
hvap	39.22	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.525		Crippen Method
mcvol	93.870	ml/mol	McGowan Method
pc	4114.41	kPa	Joback Method
rinpol	988.00		NIST Webbook
rinpol	988.00		NIST Webbook
tb	416.42	K	Joback Method
tc	627.14	K	Joback Method
tf	224.21	K	Joback Method
vc	0.349	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	134.12	J/mol×K	416.42	Joback Method
cpg	138.05	J/mol×K	451.54	Joback Method
cpg	141.79	J/mol×K	486.66	Joback Method
cpg	145.36	J/mol×K	521.78	Joback Method

cpg	148.75	J/mol×K	556.90	Joback Method
cpg	151.95	J/mol×K	592.02	Joback Method
cpg	154.97	J/mol×K	627.14	Joback Method
dvisc	0.0061393	Pa×s	224.21	Joback Method
dvisc	0.0028413	Pa×s	256.25	Joback Method
dvisc	0.0015605	Pa×s	288.28	Joback Method
dvisc	0.0009662	Pa×s	320.31	Joback Method
dvisc	0.0006528	Pa×s	352.35	Joback Method
dvisc	0.0004708	Pa×s	384.38	Joback Method
dvisc	0.0003570	Pa×s	416.42	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=C20524861&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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume