2-Propanol, 1,1,3,3-tetrachloro-

Inchi: InChI=1S/C3H4Cl4O/c4-2(5)1(8)3(6)7/h1-3,8H
InchiKey: DJQBSIUDOQUMHD-UHFFFAOYSA-N
Formula: C3H4Cl4O
SMILES: OC(C(Cl)Cl)C(Cl)Cl
Mol. weight [g/mol]: 197.88
CAS: 18992-39-7

Physical Properties

Property code	Value	Unit	Source
gf	-217.48	kJ/mol	Joback Method
hf	-336.28	kJ/mol	Joback Method
hfus	13.83	kJ/mol	Joback Method
hvap	55.33	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	1.955		Crippen Method
mcvol	107.960	ml/mol	McGowan Method
pc	4227.54	kPa	Joback Method
tb	508.62	K	Joback Method
tc	710.17	K	Joback Method
tf	259.07	K	Joback Method
vc	0.401	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	180.52	J/mol×K	508.62	Joback Method
cpg	185.58	J/mol×K	542.21	Joback Method
cpg	190.29	J/mol×K	575.80	Joback Method
cpg	194.69	J/mol×K	609.40	Joback Method
cpg	198.78	J/mol×K	642.99	Joback Method
cpg	202.58	J/mol×K	676.58	Joback Method
cpg	206.11	J/mol×K	710.17	Joback Method
dvisc	0.0701544	Pa×s	259.07	Joback Method
dvisc	0.0133219	Pa×s	300.66	Joback Method

dvisc	0.0037882	Pa×s	342.25	Joback Method
dvisc	0.0014146	Pa×s	383.85	Joback Method
dvisc	0.0006405	Pa×s	425.44	Joback Method
dvisc	0.0003339	Pa×s	467.03	Joback Method
dvisc	0.0001937	Pa×s	508.62	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=C18992397&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume