2-Butanone, 1,3,3,4-tetrachloro

Inchi: InChI=1S/C4H4Cl4O/c5-1-3(9)4(7,8)2-6/h1-2H2
InchiKey: FOKWGKSYBDIIRQ-UHFFFAOYSA-N
Formula: C4H4Cl4O
SMILES: O=C(CCl)C(Cl)(Cl)CCl
Mol. weight [g/mol]: 209.89

Physical Properties

Property code	Value	Unit	Source
gf	-191.00	kJ/mol	Joback Method
hf	-310.18	kJ/mol	Joback Method
hfus	17.09	kJ/mol	Joback Method
hvap	47.49	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	2.207		Crippen Method
mcvol	117.750	ml/mol	McGowan Method
pc	3594.25	kPa	Joback Method
rinpol	1105.00		NIST Webbook
rinpol	1096.00		NIST Webbook
rinpol	1093.00		NIST Webbook
rinpol	1078.00		NIST Webbook
rinpol	1078.00		NIST Webbook
tb	491.28	K	Joback Method
tc	713.40	K	Joback Method
tf	306.87	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	196.28	J/mol×K	491.28	Joback Method
cpg	202.85	J/mol×K	528.30	Joback Method
cpg	208.83	J/mol×K	565.32	Joback Method
cpg	214.27	J/mol×K	602.34	Joback Method
cpg	219.20	J/mol×K	639.36	Joback Method

cpg	223.66	J/mol×K	676.38	Joback Method
cpg	227.71	J/mol×K	713.40	Joback Method
dvisc	0.0041106	Pa×s	306.87	Joback Method
dvisc	0.0023680	Pa×s	337.61	Joback Method
dvisc	0.0014956	Pa×s	368.34	Joback Method
dvisc	0.0010139	Pa×s	399.07	Joback Method
dvisc	0.0007267	Pa×s	429.81	Joback Method
dvisc	0.0005445	Pa×s	460.54	Joback Method
dvisc	0.0004230	Pa×s	491.28	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=R629484&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